



Product Service

EMC TEST REPORT

Report Number : **68.720.13.040.01** Date of Issue: 23 May 2013

Model : LE3933, LE-D3902

Product Type : 39" LED TV

Applicant : Wanlida Group Co., Ltd.

Address : No. 618, Jiahe Road, Wanlida Industry Zone, Xiamen, Fujian, China

Production Facility : Wanlida Group Co., Ltd.

Address : Wanlida Industry Zone, Nanjing, Fujian, China 363601

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 67

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: Jiangsu TÜV Product Service Ltd. Shenzhen Branch
6th Floor, H Hall,
Culture Creative Park,
No. 4001, Fuqiang Road,
Futian District 518048,
Shenzhen,P.R.C.

Telephone: 86 755 8828 6998

Fax: 86 755 8828 5299

Test Site 2

Company name: Waltek Services (Shenzhen) Co., Ltd.
1/F, Fukangtai Building, West Baima Rd,
Songgang Street, Baoan District,
ShenZhen, Guangdong,China.

Telephone: +86-755-8355 1033

Fax: +86-755-2355 2400

3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product: 39" LED TV

Model no.: LE3933

Serial number: NIL

Options and accessories: NIL

Rating: AC 100-120V, 80W

Description of the EUT: NIL

Auxiliary Equipment and Cable Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Computer	Acer	AG1720	1300148096
Keyboard	Shuangfeiyan	KB-3	--
Mouse	JEEJA	M-01	--
DVD player	Panasonic	DVD-S858	VC8SQ002056
U pad	Sandisk	--	--
Insertion Unit(75ohm/50ohm)	R&S	--	--
VGA cable	--	Unshield	1.20cm
HDMI cable	--	Unshield	1.20cm
TV generator	R&S	SFE	121193



Product Service

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart B 10-1-12 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators



5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart B					
Test Condition	Pages	Test Site	Test Result		
			Pass	Fail	N/A
15.107 Conducted Emission AC Power Port	8	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.109 Spurious radiated emissions	22	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.111 Antenna conducted power	64	Site 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: SMFLE3933 filing to comply with Section 15.107, 15.109 and 15.111 of the FCC Part 15, Subpart B Rules.

Model no LE-D3902 has the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with LE3933. The difference lies only in model name, brand of the different models for the marketing business. So EMC test is applied on LE3933, LE-D3902 is deemed to fulfill the requirement without further test.

SUMMARY:

All tests according to the regulations cited on page 5 were

☒ - Performed

☐ - **Not** Performed

The Equipment Under Test

☒ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date: 16 May 2013

Testing Start Date: 17 May 2013

Testing End Date: 22 May 2013

- Jiangsu TÜV Product Service Ltd. – Shenzhen Branch -

Reviewed by:

Prepared by:

Tested by:

Ken Li
EMC Project Manager

Felix Li
EMC Project Engineer

Zero Zhou
EMC Test Engineer

7 Technical Requirement

7.1 Conducted Emission

Test Method

- 1 The EUT was placed on a table, which is 0.8m above ground plane
- 2 The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3 Maximum procedure was performed to ensure EUT compliance
- 4 A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions from both sides of AC line

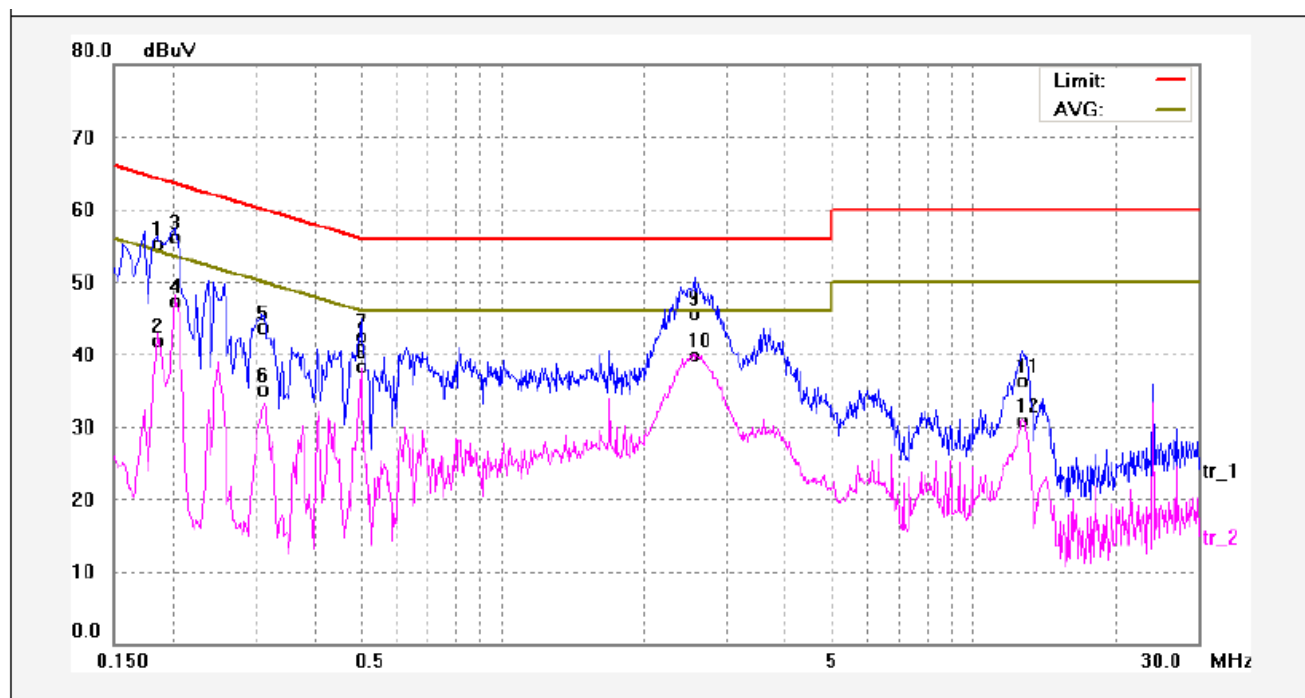
Limit

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

Conducted Emission

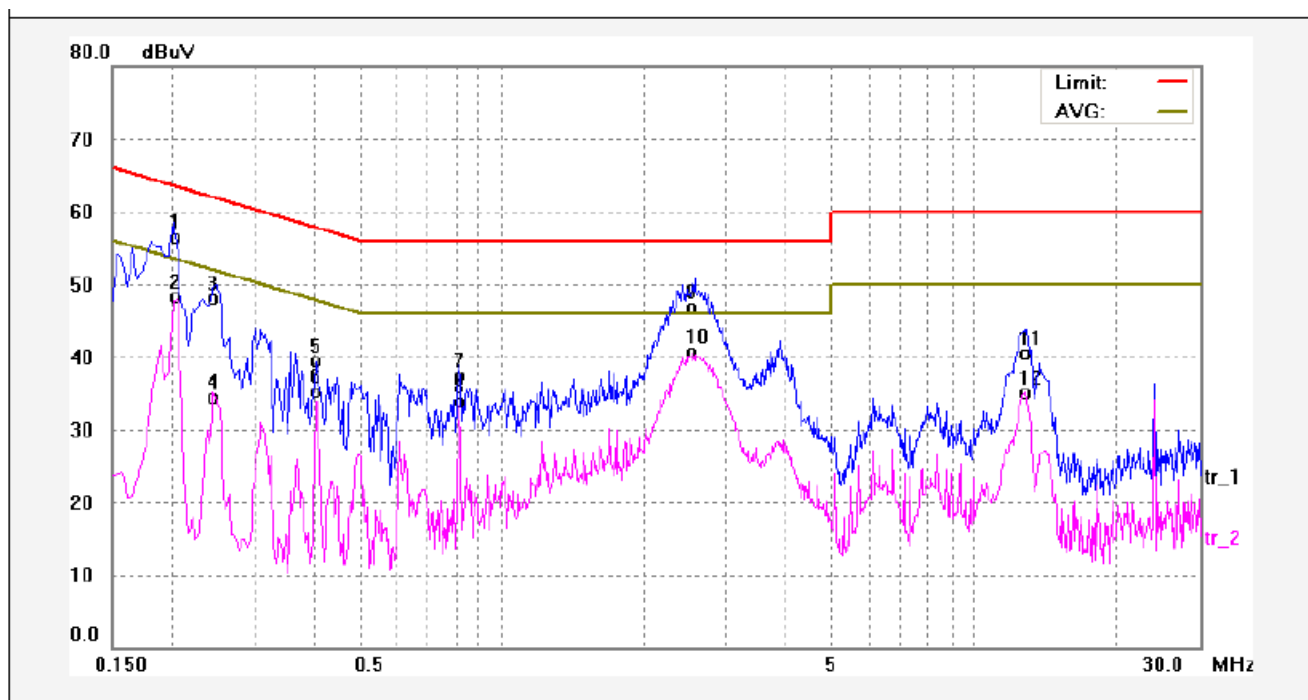
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : DTV
Test specification : Live
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1860	44.61	9.83	54.44	64.21	-9.77	QP	
2	0.1860	31.34	9.83	41.17	54.21	-13.04	AVG	
3	0.2020	45.50	9.84	55.34	63.52	-8.18	QP	
4	0.2020	36.60	9.84	46.44	53.52	-7.08	AVG	
5	0.3116	33.02	9.87	42.89	59.93	-17.04	QP	
6	0.3116	24.39	9.87	34.26	49.93	-15.67	AVG	
7	0.5020	31.85	9.93	41.78	56.00	-14.22	QP	
8	0.5020	27.58	9.93	37.51	46.00	-8.49	AVG	
9	2.5740	34.93	10.02	44.95	56.00	-11.05	QP	
10	2.5740	29.10	10.02	39.12	46.00	-6.88	AVG	
11	12.7700	24.73	10.72	35.45	60.00	-24.55	QP	
12	12.7700	19.33	10.72	30.05	50.00	-19.95	AVG	

Conducted Emission

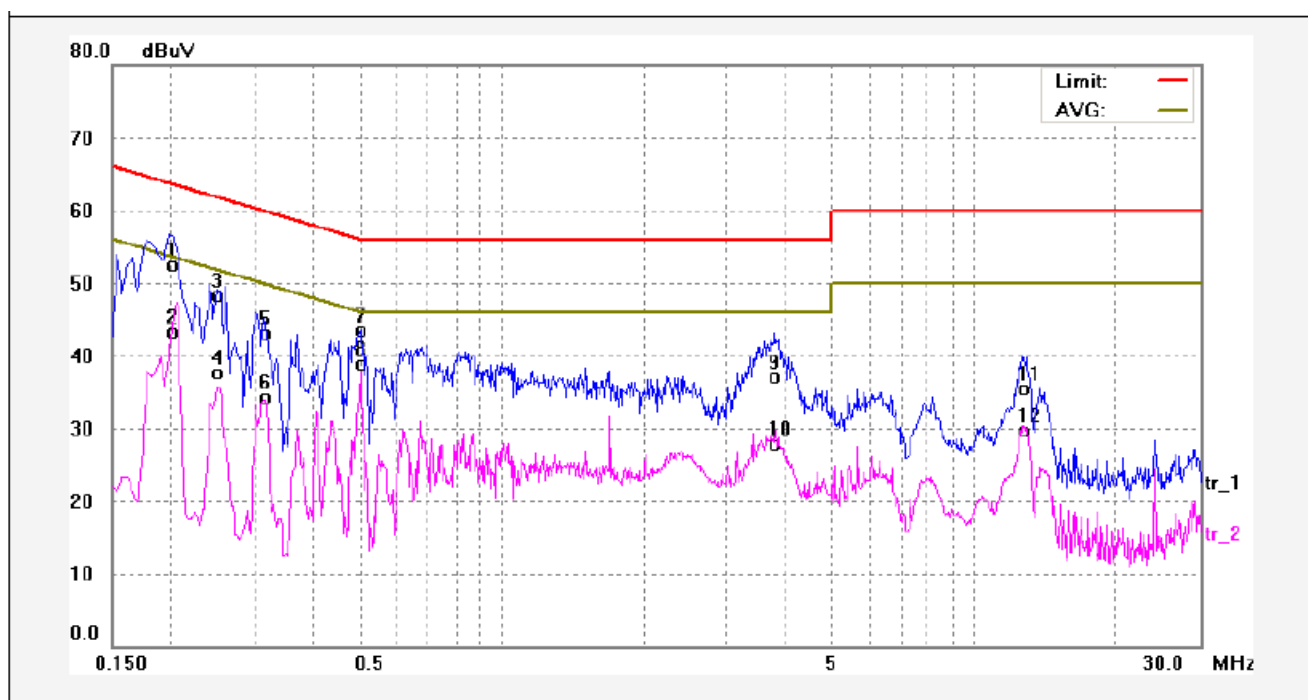
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : DTV
Test specification : Neutral
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.2020	45.92	9.84	55.76	63.52	-7.76	QP	
2	0.2020	37.62	9.84	47.46	53.52	-6.06	AVG	
3	0.2468	37.43	9.85	47.28	61.86	-14.58	QP	
4	0.2468	23.88	9.85	33.73	51.86	-18.13	AVG	
5	0.4060	28.80	9.90	38.70	57.73	-19.03	QP	
6	0.4060	24.55	9.90	34.45	47.73	-13.28	AVG	
7	0.8139	26.73	9.97	36.70	56.00	-19.30	QP	
8	0.8139	23.12	9.97	33.09	46.00	-12.91	AVG	
9	2.5740	36.01	10.02	46.03	56.00	-9.97	QP	
10	2.5740	29.90	10.02	39.92	46.00	-6.08	AVG	
11	12.8060	28.90	10.72	39.62	60.00	-20.38	QP	
12	12.8060	23.55	10.72	34.27	50.00	-15.73	AVG	

Conducted Emission

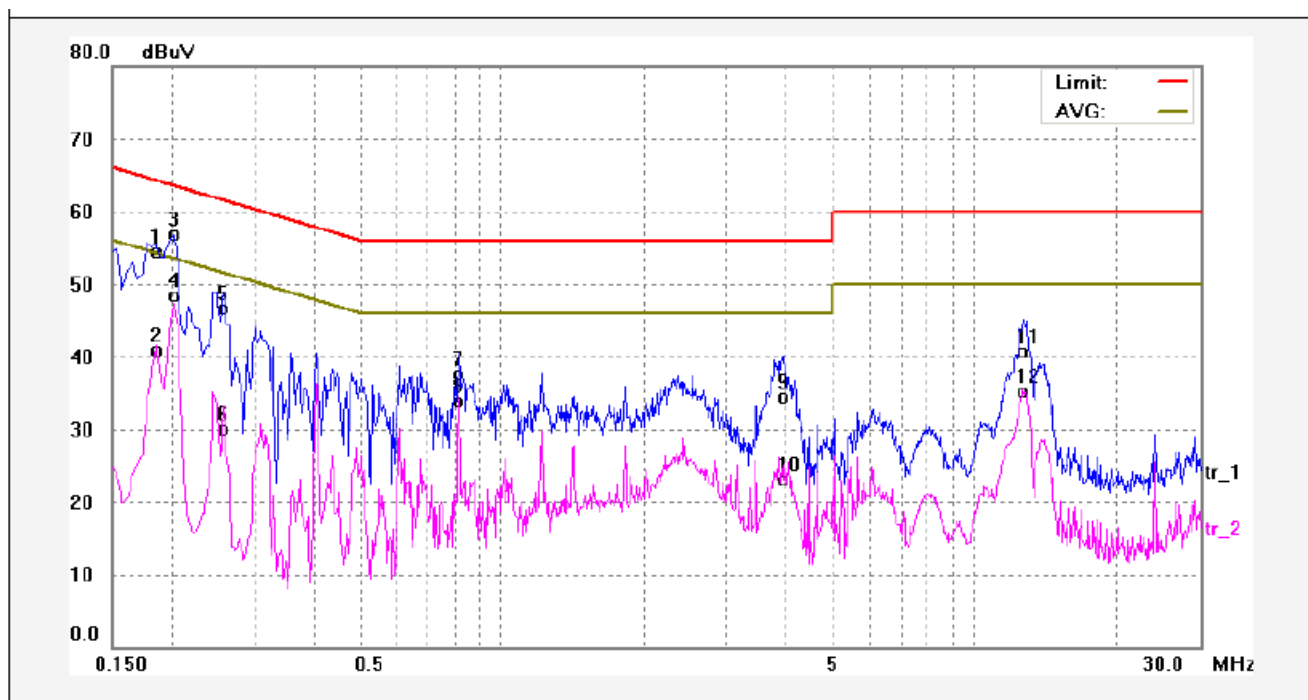
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Live
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1986	41.81	9.84	51.65	63.66	-12.01	QP	
2	0.1986	32.57	9.84	42.41	53.66	-11.25	AVG	
3	0.2500	37.71	9.85	47.56	61.75	-14.19	QP	
4	0.2500	27.01	9.85	36.86	51.75	-14.89	AVG	
5	0.3140	32.51	9.87	42.38	59.86	-17.48	QP	
6	0.3140	23.69	9.87	33.56	49.86	-16.30	AVG	
7	0.5020	32.78	9.93	42.71	56.00	-13.29	QP	
8	0.5020	28.11	9.93	38.04	46.00	-7.96	AVG	
9	3.7860	26.15	10.06	36.21	56.00	-19.79	QP	
10	3.7860	16.99	10.06	27.05	46.00	-18.95	AVG	
11	12.6420	23.94	10.71	34.65	60.00	-25.35	QP	
12	12.6420	18.26	10.71	28.97	50.00	-21.03	AVG	

Conducted Emission

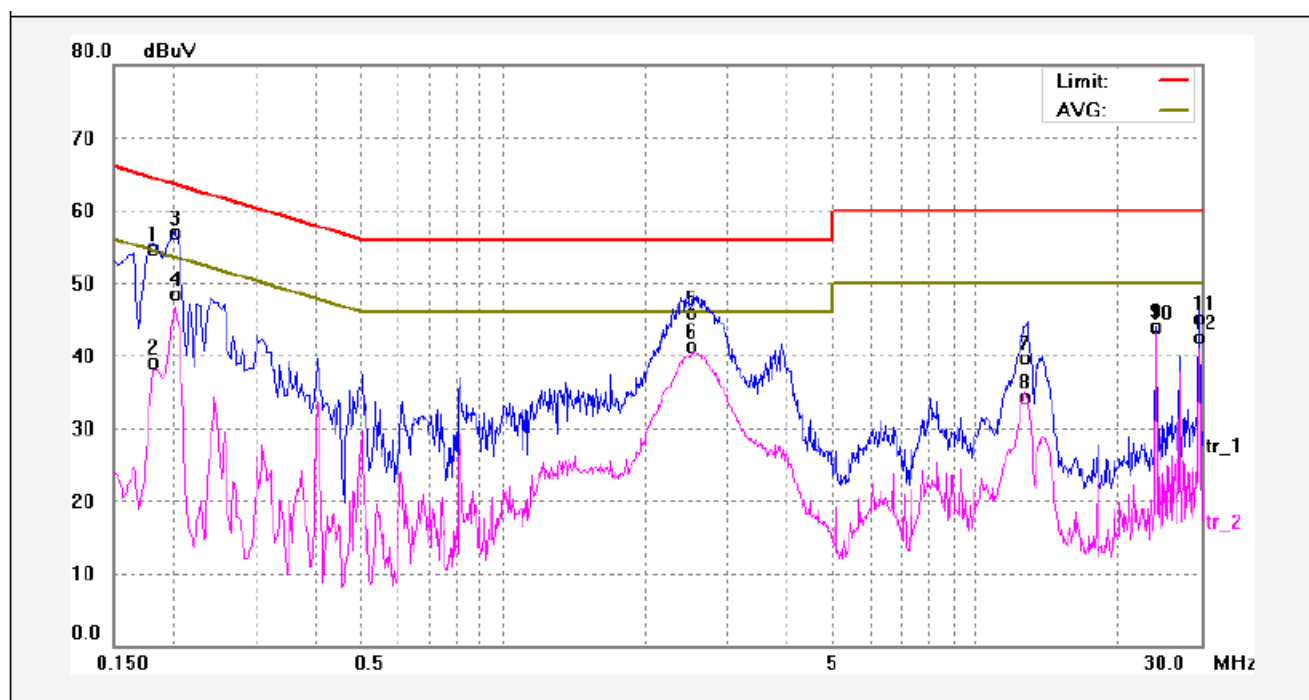
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : ATV
Test specification : Neutral
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1860	43.89	9.83	53.72	64.21	-10.49	QP	
2	0.1860	30.33	9.83	40.16	54.21	-14.05	AVG	
3	0.2020	46.27	9.84	56.11	63.52	-7.41	QP	
4	0.2020	37.85	9.84	47.69	53.52	-5.83	AVG	
5	0.2580	35.96	9.86	45.82	61.49	-15.67	QP	
6	0.2580	19.52	9.86	29.38	51.49	-22.11	AVG	
7	0.8139	26.86	9.97	36.83	56.00	-19.17	QP	
8	0.8139	23.15	9.97	33.12	46.00	-12.88	AVG	
9	3.9380	23.56	10.06	33.62	56.00	-22.38	QP	
10	3.9380	12.19	10.06	22.25	46.00	-23.75	AVG	
11	12.7500	29.23	10.72	39.95	60.00	-20.05	QP	
12	12.7500	23.80	10.72	34.52	50.00	-15.48	AVG	

Conducted Emission

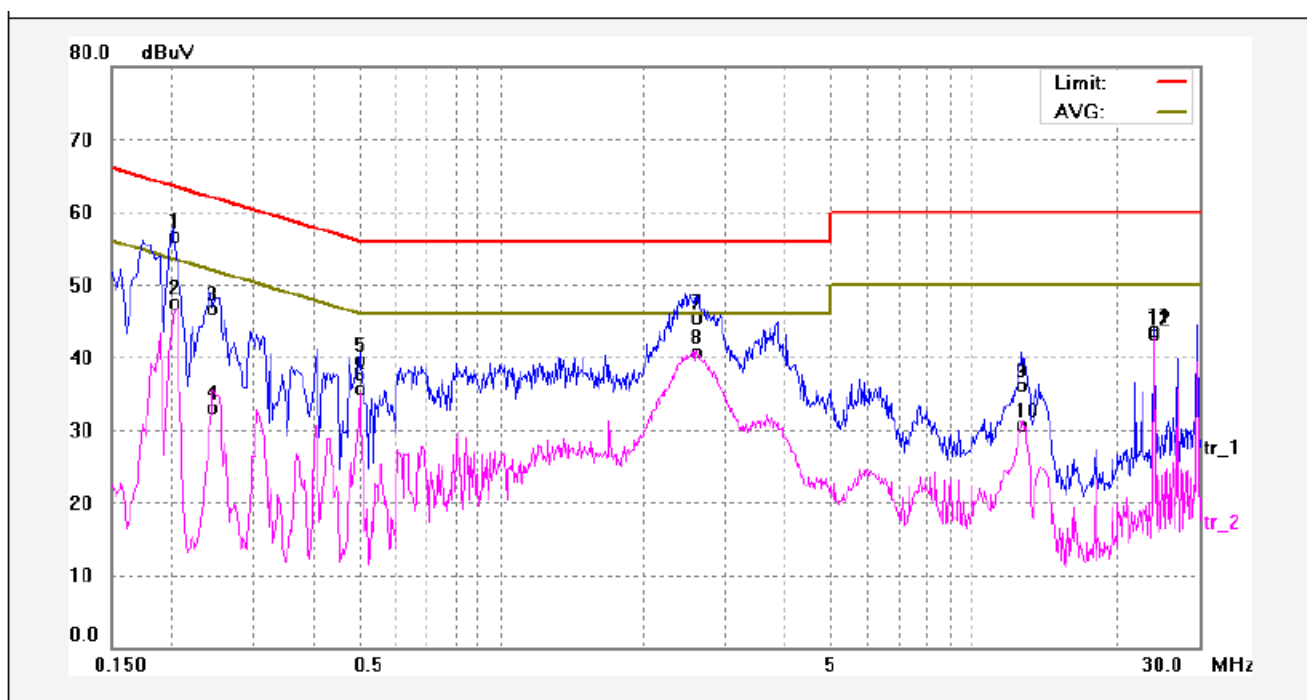
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : HDMI
 Test specification : Live
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1819	44.07	9.83	53.90	64.39	-10.49	QP	
2	0.1819	28.43	9.83	38.26	54.39	-16.13	AVG	
3	0.2020	46.34	9.84	56.18	63.52	-7.34	QP	
4	0.2020	37.85	9.84	47.69	53.52	-5.83	AVG	
5	2.5180	35.00	10.02	45.02	56.00	-10.98	QP	
6	2.5180	30.46	10.02	40.48	46.00	-5.52	AVG	
7	12.8780	28.18	10.73	38.91	60.00	-21.09	QP	
8	12.8780	22.71	10.73	33.44	50.00	-16.56	AVG	
9	24.0660	31.72	11.53	43.25	60.00	-16.75	QP	
10	24.0660	31.65	11.53	43.18	50.00	-6.82	AVG	
11	29.7020	32.08	12.27	44.35	60.00	-15.65	QP	
12	29.7020	29.42	12.27	41.69	50.00	-8.31	AVG	

Conducted Emission

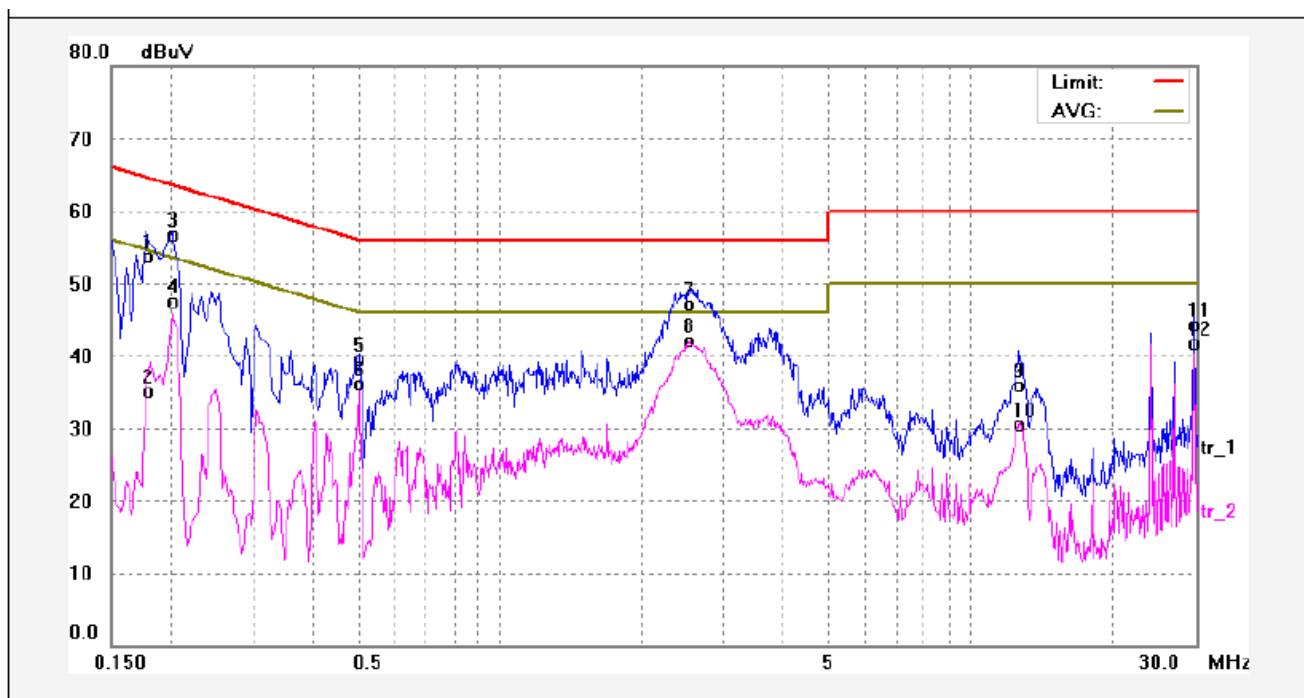
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : HDMI
Test specification : Neutral
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.2020	46.08	9.84	55.92	63.52	-7.60	QP	
2	0.2020	36.96	9.84	46.80	53.52	-6.72	AVG	
3	0.2429	36.06	9.85	45.91	61.99	-16.08	QP	
4	0.2429	22.49	9.85	32.34	51.99	-19.65	AVG	
5	0.5020	28.92	9.93	38.85	56.00	-17.15	QP	
6	0.5020	25.07	9.93	35.00	46.00	-11.00	AVG	
7	2.6340	34.67	10.02	44.69	56.00	-11.31	QP	
8	2.6340	29.91	10.02	39.93	46.00	-6.07	AVG	
9	12.7060	24.64	10.72	35.36	60.00	-24.64	QP	
10	12.7060	19.22	10.72	29.94	50.00	-20.06	AVG	
11	24.0660	31.29	11.53	42.82	60.00	-17.18	QP	
12	24.0660	30.97	11.53	42.50	50.00	-7.50	AVG	

Conducted Emission

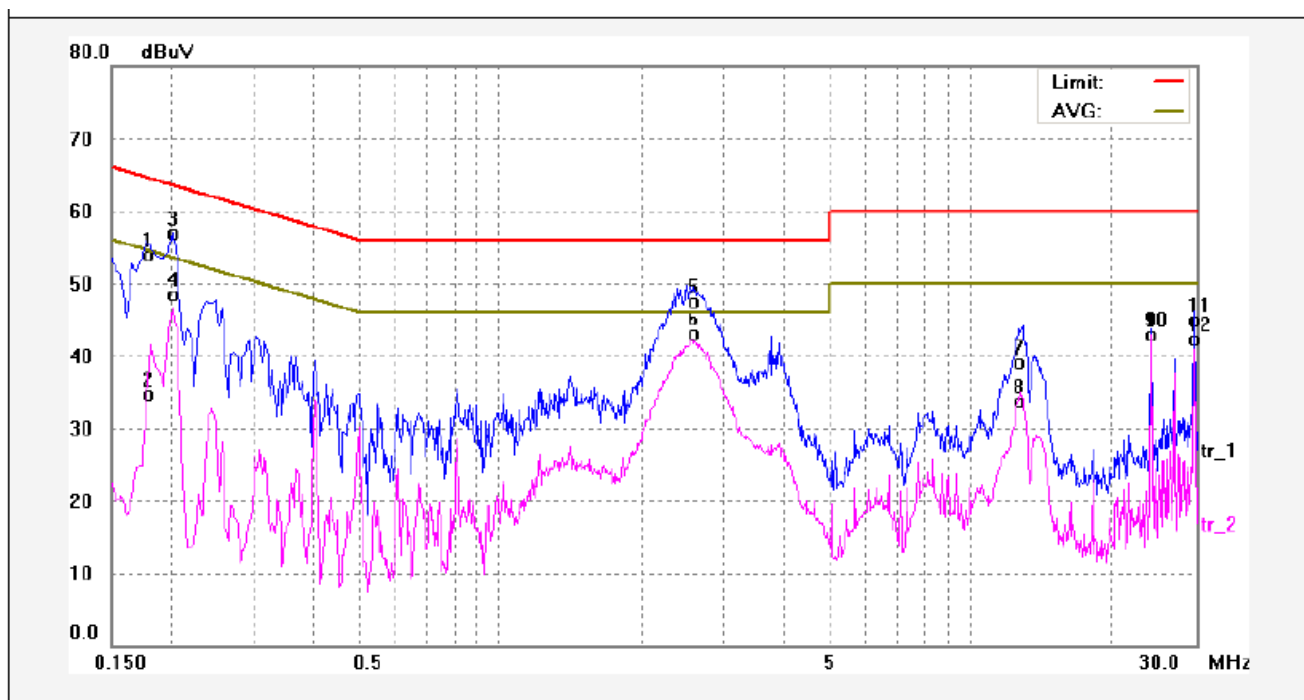
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : VGA
Test specification : Live
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1780	43.17	9.82	52.99	64.57	-11.58	QP	
2	0.1780	24.56	9.82	34.38	54.57	-20.19	AVG	
3	0.2020	46.06	9.84	55.90	63.52	-7.62	QP	
4	0.2020	36.93	9.84	46.77	53.52	-6.75	AVG	
5	0.5020	28.83	9.93	38.76	56.00	-17.24	QP	
6	0.5020	25.28	9.93	35.21	46.00	-10.79	AVG	
7	2.5579	36.34	10.02	46.36	56.00	-9.64	QP	
8	2.5579	31.36	10.02	41.38	46.00	-4.62	AVG	
9	12.6620	24.49	10.71	35.20	60.00	-24.80	QP	
10	12.6620	19.05	10.71	29.76	50.00	-20.24	AVG	
11	29.7020	31.23	12.27	43.50	60.00	-16.50	QP	
12	29.7020	28.59	12.27	40.86	50.00	-9.14	AVG	

Conducted Emission

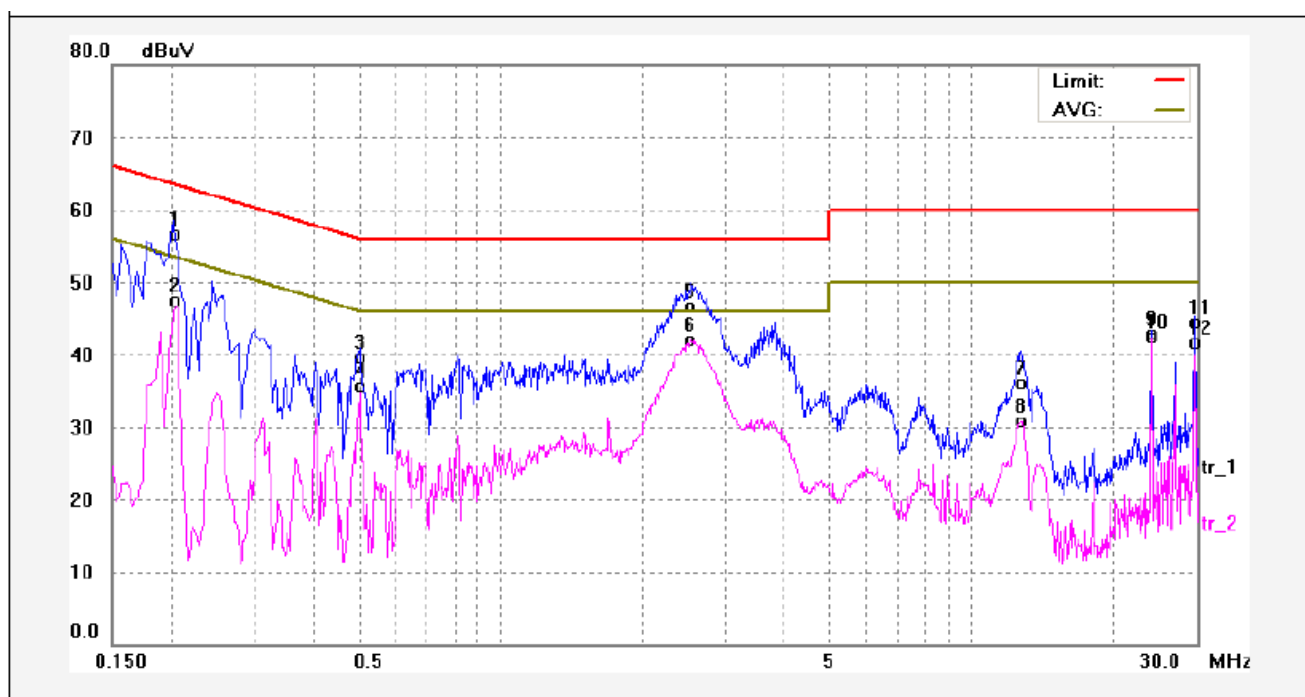
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : VGA
Test specification : Neutral
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1780	43.31	9.82	53.13	64.57	-11.44	QP	
2	0.1780	24.15	9.82	33.97	54.57	-20.60	AVG	
3	0.2020	46.35	9.84	56.19	63.52	-7.33	QP	
4	0.2020	37.86	9.84	47.70	53.52	-5.82	AVG	
5	2.5740	36.69	10.02	46.71	56.00	-9.29	QP	
6	2.5740	32.34	10.02	42.36	46.00	-3.64	AVG	
7	12.8580	27.50	10.73	38.23	60.00	-21.77	QP	
8	12.8580	22.11	10.73	32.84	50.00	-17.16	AVG	
9	24.0660	30.54	11.53	42.07	60.00	-17.93	QP	
10	24.0660	30.52	11.53	42.05	50.00	-7.95	AVG	
11	29.7020	31.90	12.27	44.17	60.00	-15.83	QP	
12	29.7020	29.24	12.27	41.51	50.00	-8.49	AVG	

Conducted Emission

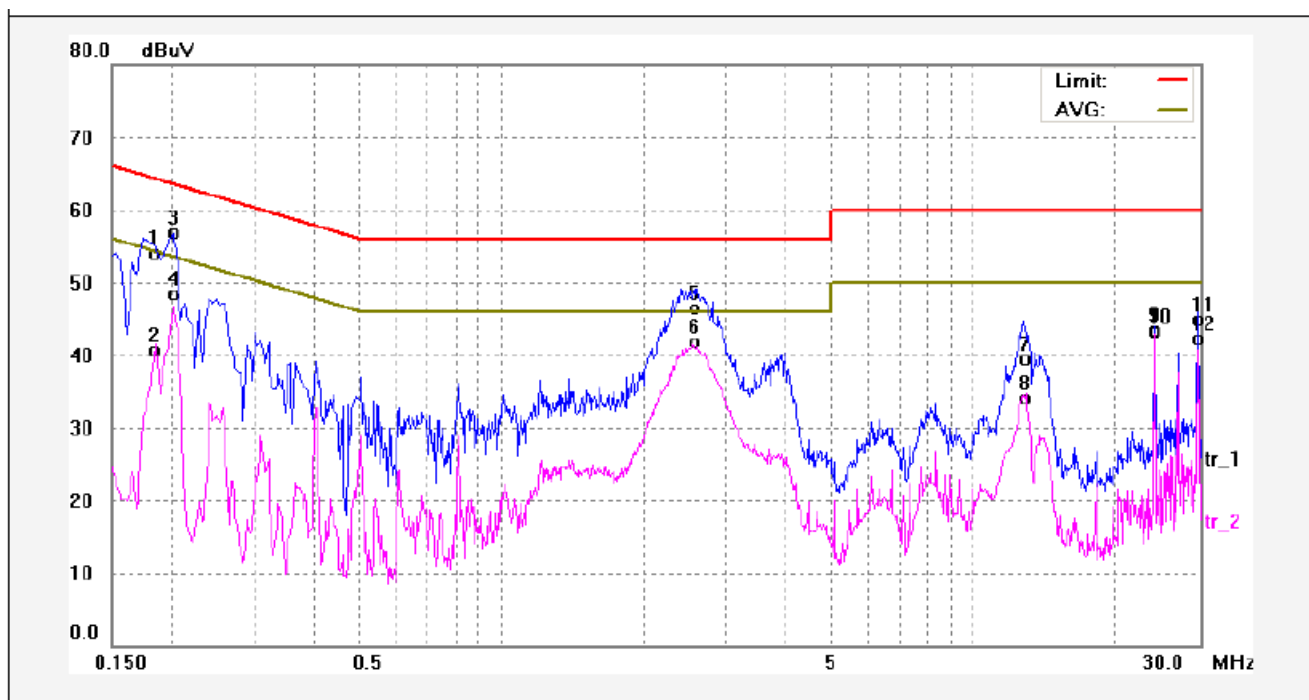
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : USB
Test specification : Live
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.2020	46.09	9.84	55.93	63.52	-7.59	QP	
2	0.2020	36.92	9.84	46.76	53.52	-6.76	AVG	
3	0.5020	28.93	9.93	38.86	56.00	-17.14	QP	
4	0.5020	24.90	9.93	34.83	46.00	-11.17	AVG	
5	2.5340	35.81	10.02	45.83	56.00	-10.17	QP	
6	2.5340	31.31	10.02	41.33	46.00	-4.67	AVG	
7	12.7620	24.66	10.72	35.38	60.00	-24.62	QP	
8	12.7620	19.38	10.72	30.10	50.00	-19.90	AVG	
9	24.0660	30.61	11.53	42.14	60.00	-17.86	QP	
10	24.0660	30.16	11.53	41.69	50.00	-8.31	AVG	
11	29.7020	31.39	12.27	43.66	60.00	-16.34	QP	
12	29.7020	28.73	12.27	41.00	50.00	-9.00	AVG	

Conducted Emission

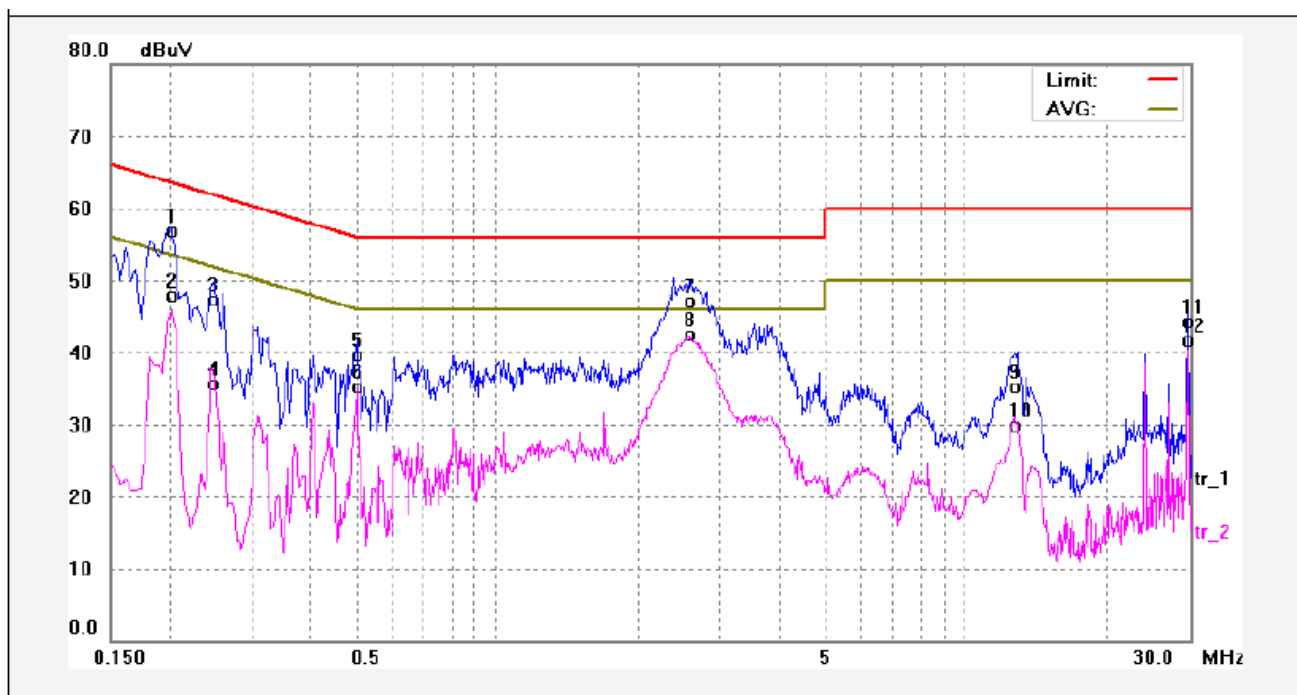
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : USB
Test specification : Neutral
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1860	43.56	9.83	53.39	64.21	-10.82	QP	
2	0.1860	30.13	9.83	39.96	54.21	-14.25	AVG	
3	0.2020	46.34	9.84	56.18	63.52	-7.34	QP	
4	0.2020	37.81	9.84	47.65	53.52	-5.87	AVG	
5	2.5700	35.66	10.02	45.68	56.00	-10.32	QP	
6	2.5700	31.04	10.02	41.06	46.00	-4.94	AVG	
7	12.8700	27.99	10.73	38.72	60.00	-21.28	QP	
8	12.8700	22.56	10.73	33.29	50.00	-16.71	AVG	
9	24.0700	31.27	11.53	42.80	60.00	-17.20	QP	
10	24.0700	30.88	11.53	42.41	50.00	-7.59	AVG	
11	29.7020	31.88	12.27	44.15	60.00	-15.85	QP	
12	29.7020	29.21	12.27	41.48	50.00	-8.52	AVG	

Conducted Emission

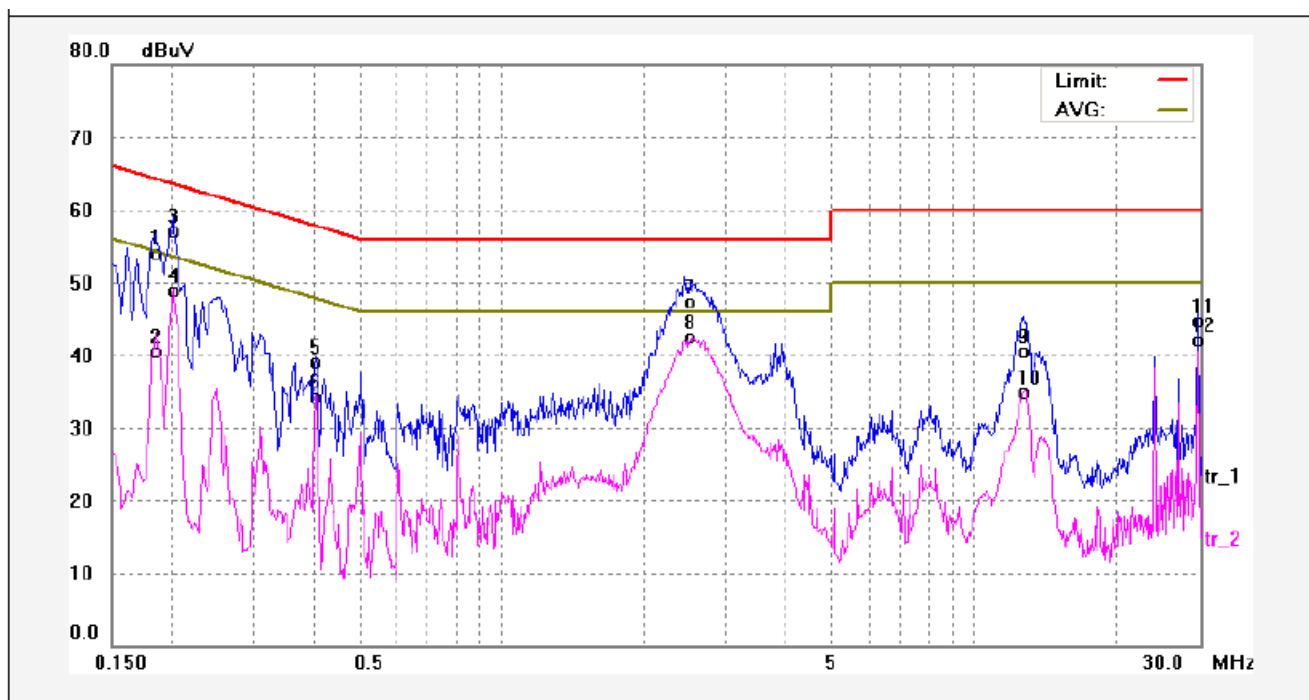
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : AV
Test specification : Live
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.2020	46.26	9.84	56.10	63.52	-7.42	QP	
2	0.2020	37.33	9.84	47.17	53.52	-6.35	AVG	
3	0.2500	36.64	9.85	46.49	61.75	-15.26	QP	
4	0.2500	25.03	9.85	34.88	51.75	-16.87	AVG	
5	0.5020	28.88	9.93	38.81	56.00	-17.19	QP	
6	0.5020	24.58	9.93	34.51	46.00	-11.49	AVG	
7	2.5700	36.30	10.02	46.32	56.00	-9.68	QP	
8	2.5700	31.74	10.02	41.76	46.00	-4.24	AVG	
9	12.8820	23.80	10.73	34.53	60.00	-25.47	QP	
10	12.8820	18.41	10.73	29.14	50.00	-20.86	AVG	
11	29.7020	31.32	12.27	43.59	60.00	-16.41	QP	
12	29.7020	28.69	12.27	40.96	50.00	-9.04	AVG	

Conducted Emission

Product Type : 39" LED TV
M/N : LE3933
Operating Condition : AV
Test specification : Neutral
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1860	43.52	9.83	53.35	64.21	-10.86	QP	
2	0.1860	29.96	9.83	39.79	54.21	-14.42	AVG	
3	0.2020	46.54	9.84	56.38	63.52	-7.14	QP	
4	0.2020	38.26	9.84	48.10	53.52	-5.42	AVG	
5	0.4060	28.50	9.90	38.40	57.73	-19.33	QP	
6	0.4060	23.67	9.90	33.57	47.73	-14.16	AVG	
7	2.5020	36.47	10.02	46.49	56.00	-9.51	QP	
8	2.5020	31.64	10.02	41.66	46.00	-4.34	AVG	
9	12.7780	28.99	10.72	39.71	60.00	-20.29	QP	
10	12.7780	23.33	10.72	34.05	50.00	-15.95	AVG	
11	29.7020	31.62	12.27	43.89	60.00	-16.11	QP	
12	29.7020	28.97	12.27	41.24	50.00	-8.76	AVG	



Product Service

Test Equipment List

Conducted Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
EMI Test Receiver	R&S	ESCI	101178	August 8,2013
LISN	R&S	ENV216	101215	August 8,2013
Cable	Top	TYPE16(3.5M)	EW02014-5	August 8,2013

7.2 Radiated emissions

Test Method

- 1 The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2 The turntable shall be rotated for 360 degrees to determine the position of maximum emission level
- 3 EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4 Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5 Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

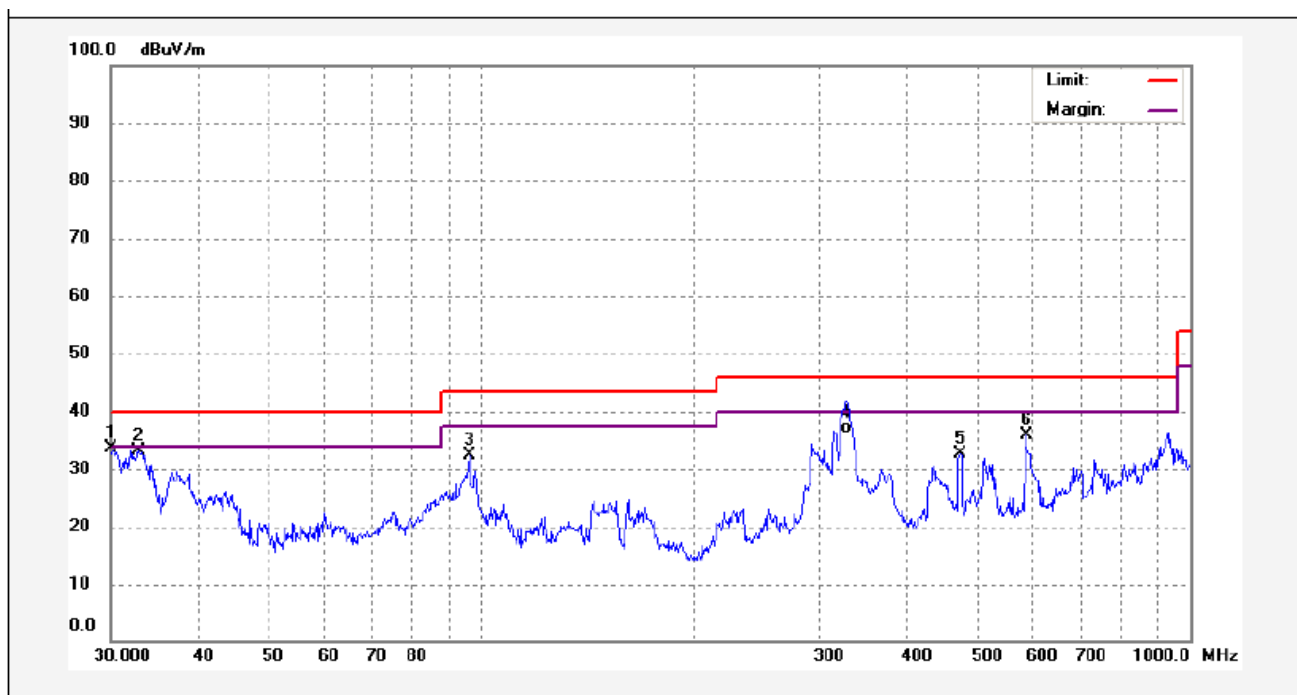
Limit

Frequency MHz	Field Strength uV/m	Field Strength dBμV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

Remark: During the radiated emission test, all the channels in ATV mode, DTV mode are applied, and the results are met the limit of requirement, the test data which listed in the report are the typical channels of Low, Middle and High.

Radiated Emission

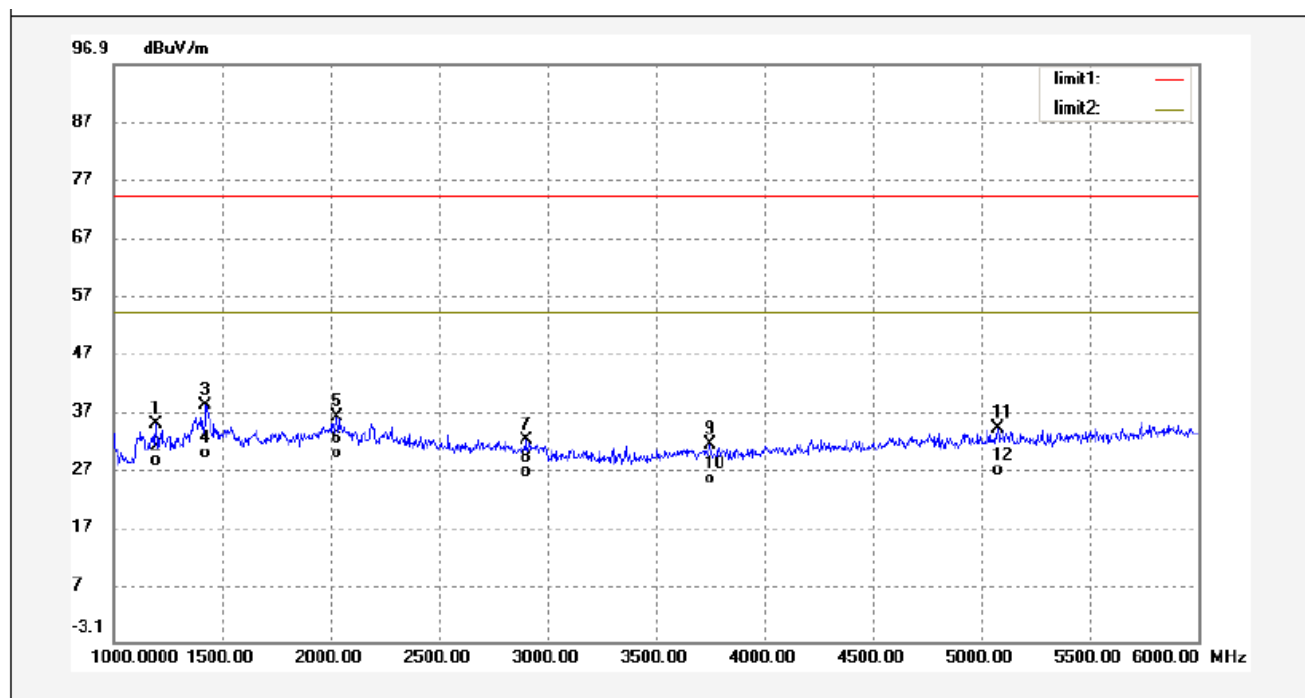
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : DTV
 Test specification : Vertical, low channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.0000	52.03	-18.29	33.74	40.00	-6.26	peak	
2	32.8637	53.17	-19.96	33.21	40.00	-6.79	peak	
3	96.0986	56.96	-24.48	32.48	43.50	-11.02	peak	
4	327.8873	55.04	-18.84	36.20	46.00	-9.80	QP	
5	473.8347	47.68	-14.96	32.72	46.00	-13.28	peak	
6	586.8437	47.75	-11.83	35.92	46.00	-10.08	peak	

Radiated Emission

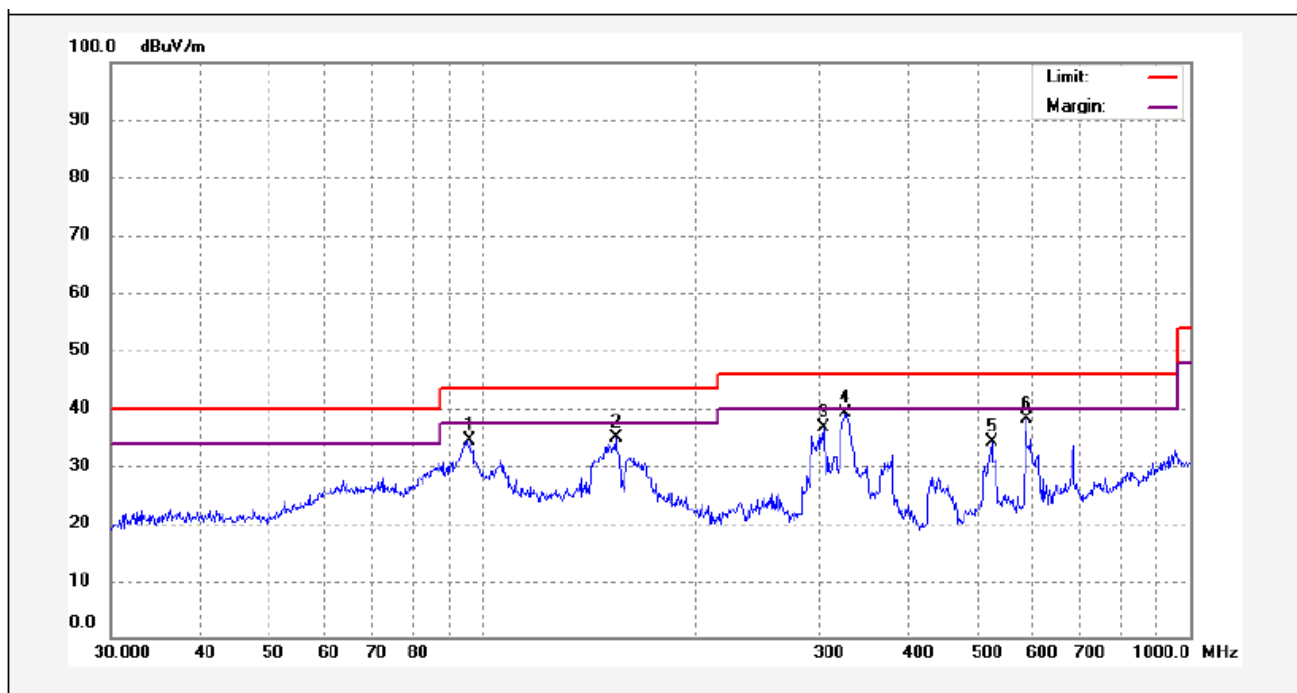
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : DTV
 Test specification : Vertical, low channel, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1195.000	52.60	-17.70	34.90	74.00	-39.10	peak	
2	1195.000	45.26	-17.70	27.56	54.00	-26.44	AVG	
3	1425.000	55.42	-17.37	38.05	74.00	-35.95	peak	
4	1425.000	46.27	-17.37	28.90	54.00	-25.10	AVG	
5	2030.000	52.49	-16.38	36.11	74.00	-37.89	peak	
6	2030.000	45.21	-16.38	28.83	54.00	-25.17	AVG	
7	2900.000	46.68	-14.76	31.92	74.00	-42.08	peak	
8	2900.000	40.26	-14.76	25.50	54.00	-28.50	AVG	
9	3750.000	45.22	-13.89	31.33	74.00	-42.67	peak	
10	3750.000	38.24	-13.89	24.35	54.00	-29.65	AVG	
11	5075.000	45.42	-11.50	33.92	74.00	-40.08	peak	
12	5075.000	37.29	-11.50	25.79	54.00	-28.21	AVG	

Radiated Emission

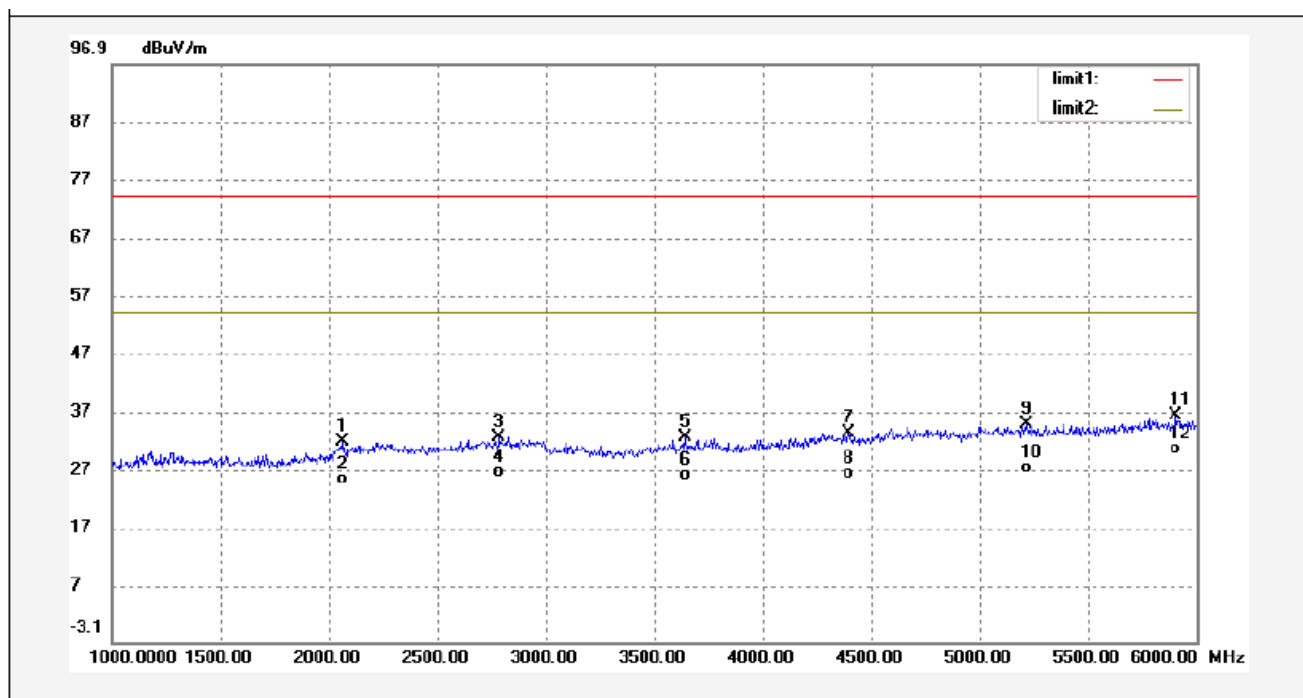
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : DTV
Test specification : Horizontal, low channel, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	96.0986	59.41	-24.98	34.43	43.50	-9.07	peak	
2	154.8204	55.66	-20.72	34.94	43.50	-8.56	peak	
3	303.5437	56.20	-19.54	36.66	46.00	-9.34	peak	
4	326.7395	58.00	-18.83	39.17	46.00	-6.83	peak	
5	524.5541	48.02	-13.79	34.23	46.00	-11.77	peak	
6	586.8437	50.01	-11.90	38.11	46.00	-7.89	peak	

Radiated Emission

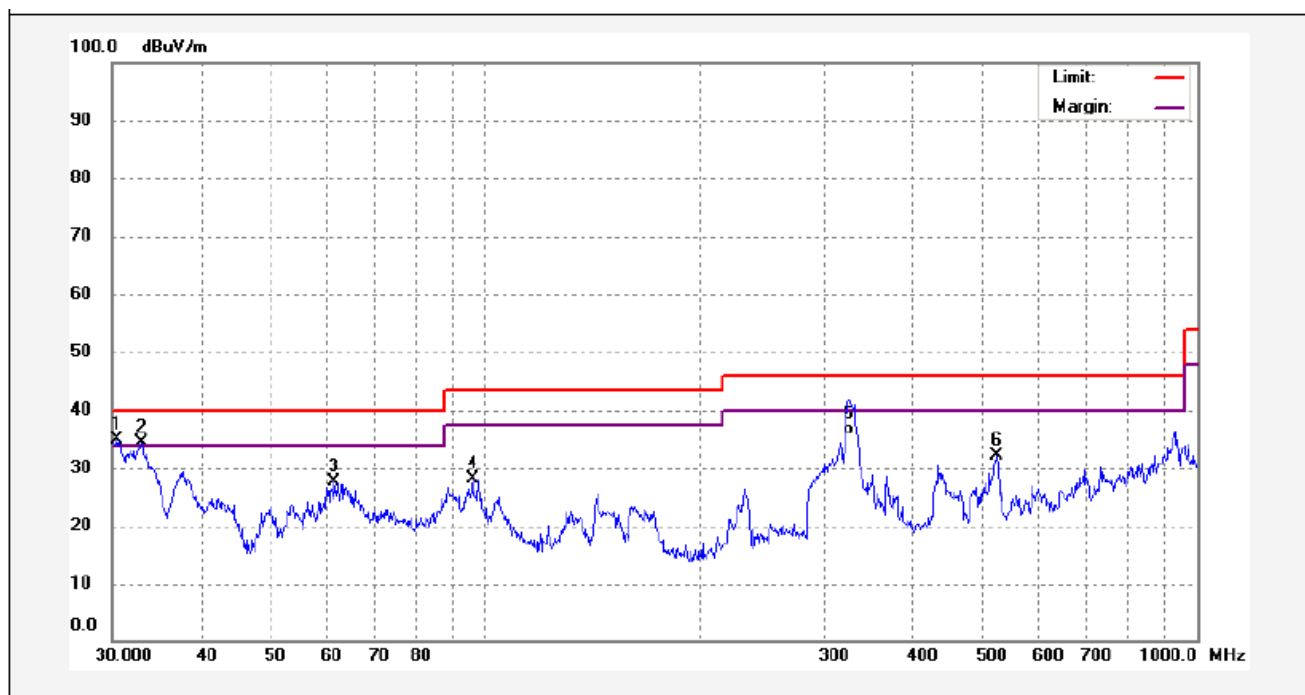
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : DTV
 Test specification : Horizontal, low channel, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2065.000	47.59	-15.90	31.69	74.00	-42.31	peak	
2	2065.000	40.23	-15.90	24.33	54.00	-29.67	AVG	
3	2785.000	47.41	-14.83	32.58	74.00	-41.42	peak	
4	2785.000	40.26	-14.83	25.43	54.00	-28.57	AVG	
5	3640.000	46.68	-14.10	32.58	74.00	-41.42	peak	
6	3640.000	39.25	-14.10	25.15	54.00	-28.85	AVG	
7	4395.000	46.30	-12.92	33.38	74.00	-40.62	peak	
8	4395.000	38.24	-12.92	25.32	54.00	-28.68	AVG	
9	5215.000	46.53	-11.74	34.79	74.00	-39.21	peak	
10	5215.000	38.01	-11.74	26.27	54.00	-27.73	AVG	
11	5905.000	47.05	-10.78	36.27	74.00	-37.73	peak	
12	5905.000	40.22	-10.78	29.44	54.00	-24.56	AVG	

Radiated Emission

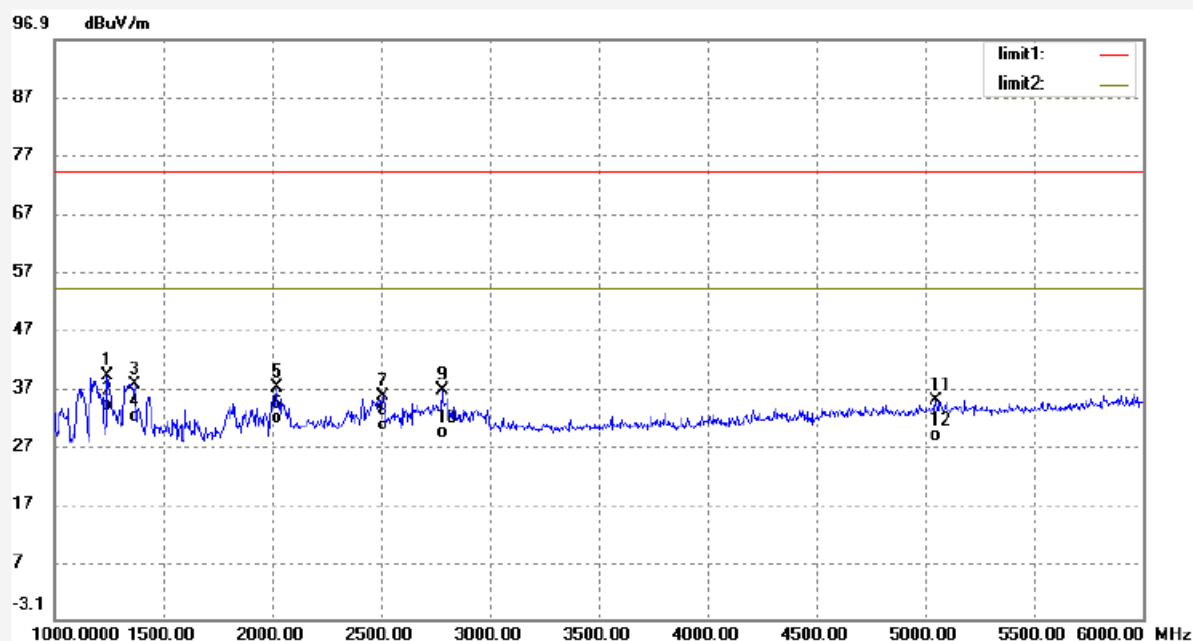
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : DTV
 Test specification : Vertical, middle channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.4238	53.46	-18.66	34.80	40.00	-5.20	peak	
2	32.9791	54.26	-19.96	34.30	40.00	-5.70	peak	
3	61.5618	50.95	-23.29	27.66	40.00	-12.34	peak	
4	96.0985	52.71	-24.48	28.23	43.50	-15.27	peak	
5	324.4561	54.63	-18.93	35.70	46.00	-10.30	QP	
6	522.7179	45.86	-13.69	32.17	46.00	-13.83	peak	

Radiated Emission

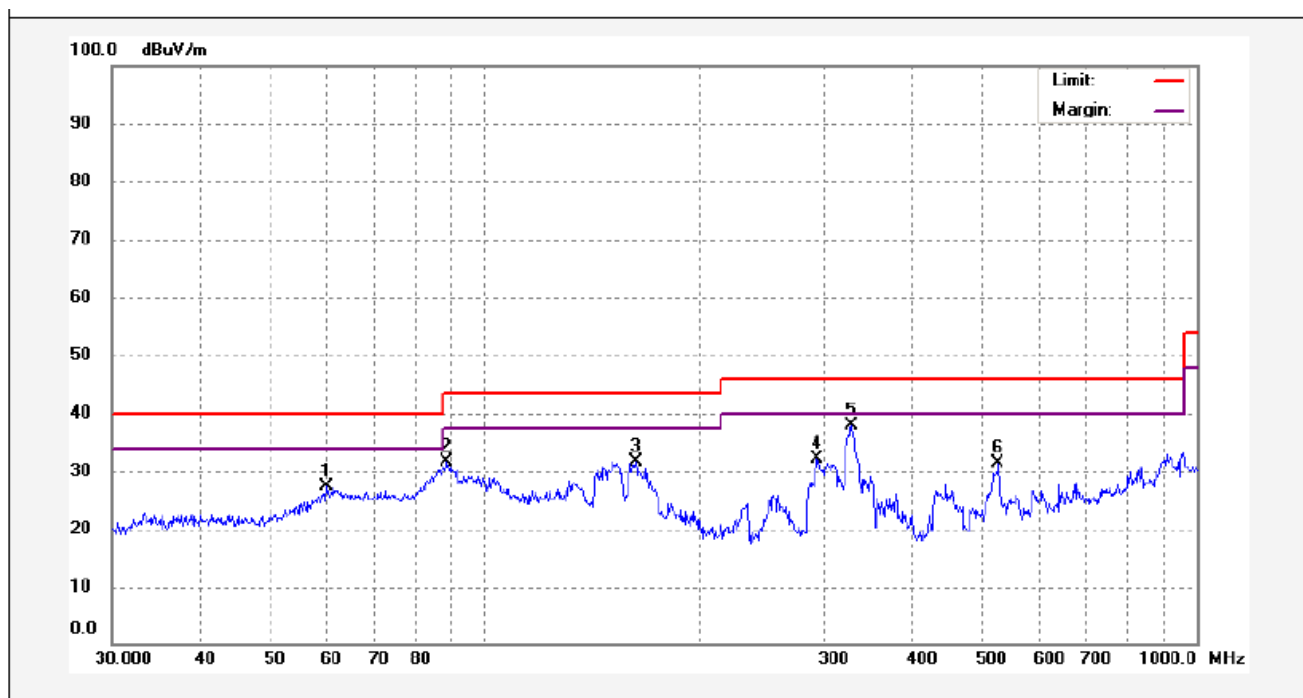
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : DTV
Test specification : Vertical, middle channel, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1245.000	56.19	-17.26	38.93	74.00	-35.07	peak	
2	1245.000	50.21	-17.26	32.95	54.00	-21.05	AVG	
3	1370.000	54.78	-17.16	37.62	74.00	-36.38	peak	
4	1370.000	48.21	-17.16	31.05	54.00	-22.95	AVG	
5	2020.000	53.64	-16.54	37.10	74.00	-36.90	peak	
6	2020.000	47.36	-16.54	30.82	54.00	-23.18	AVG	
7	2510.000	51.21	-15.64	35.57	74.00	-38.43	peak	
8	2510.000	45.22	-15.64	29.58	54.00	-24.42	AVG	
9	2780.000	51.37	-14.84	36.53	74.00	-37.47	peak	
10	2780.000	43.14	-14.84	28.30	54.00	-25.70	AVG	
11	5050.000	46.28	-11.56	34.72	74.00	-39.28	peak	
12	5050.000	39.24	-11.56	27.68	54.00	-26.32	AVG	

Radiated Emission

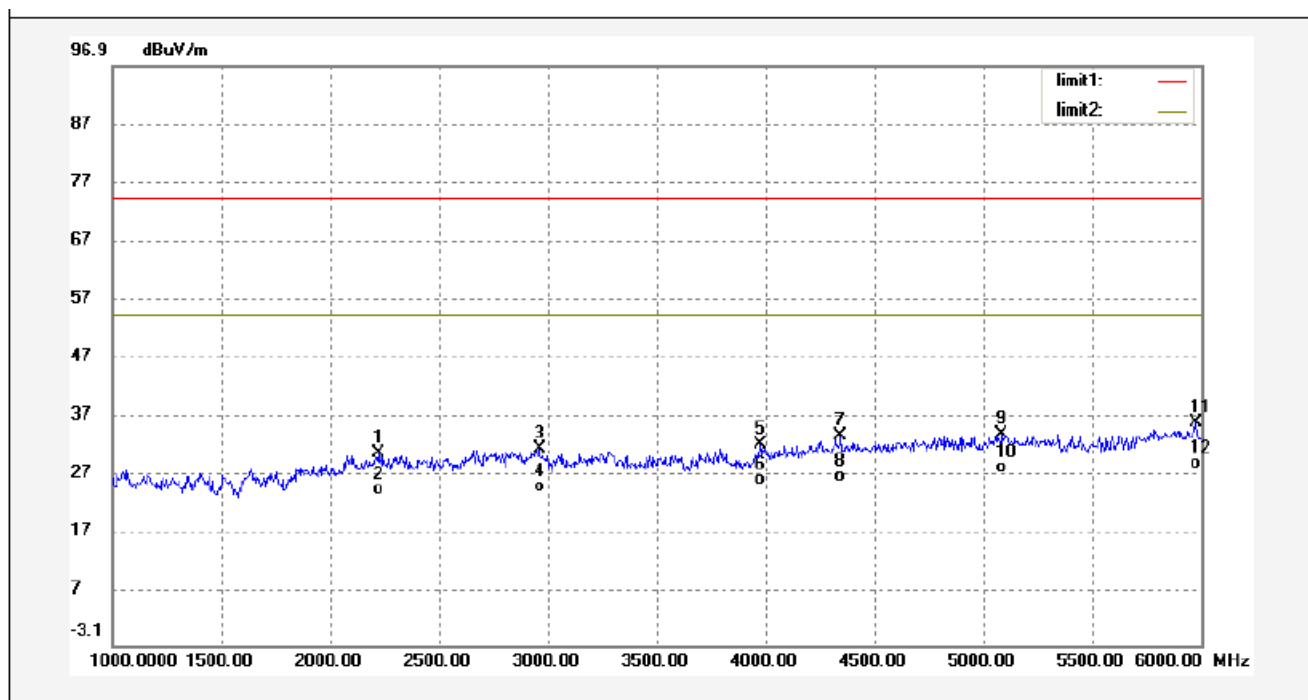
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : DTV
 Test specification : Horizontal, middle channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	60.0691	48.56	-21.28	27.28	40.00	-12.72	peak	
2	88.6524	57.07	-25.52	31.55	43.50	-11.95	peak	
3	163.1818	52.59	-20.86	31.73	43.50	-11.77	peak	
4	293.0842	51.95	-19.87	32.08	46.00	-13.92	peak	
5	327.8873	56.58	-18.79	37.79	46.00	-8.21	peak	
6	526.3967	45.10	-13.74	31.36	46.00	-14.64	peak	

Radiated Emission

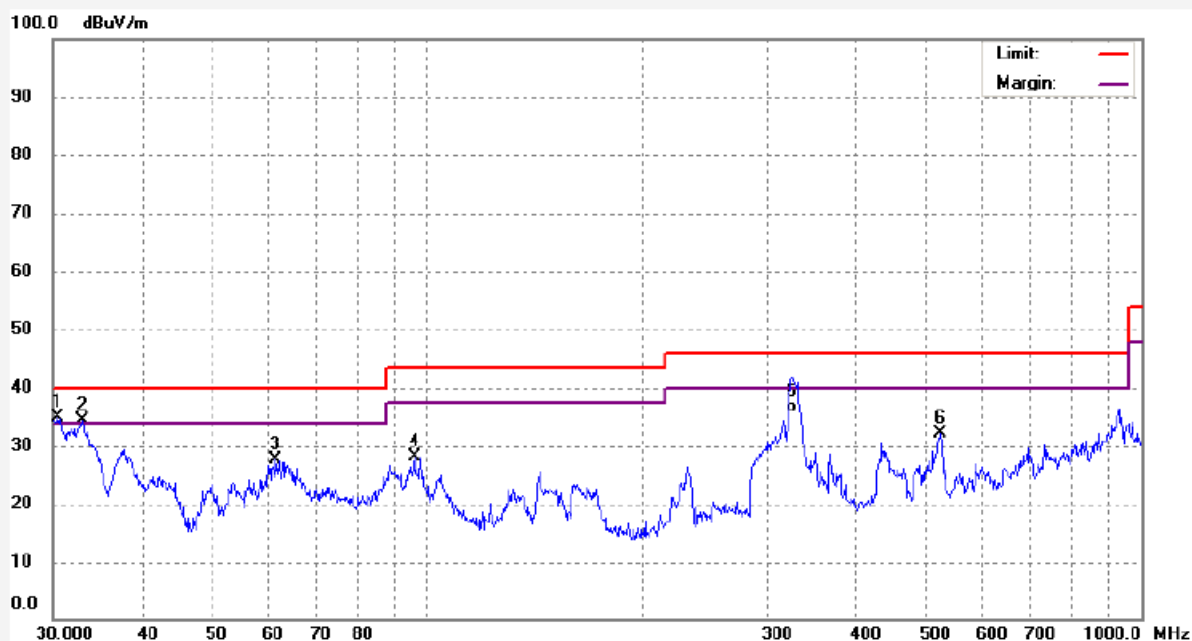
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : DTV
 Test specification : Horizontal, middle channel, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2220.000	45.47	-15.17	30.30	74.00	-43.70	peak	
2	2220.000	38.26	-15.17	23.09	54.00	-30.91	AVG	
3	2960.000	45.84	-14.76	31.08	74.00	-42.92	peak	
4	2960.000	38.25	-14.76	23.49	54.00	-30.51	AVG	
5	3975.000	45.25	-13.47	31.78	74.00	-42.22	peak	
6	3975.000	38.24	-13.47	24.77	54.00	-29.23	AVG	
7	4345.000	46.34	-12.95	33.39	74.00	-40.61	peak	
8	4345.000	38.25	-12.95	25.30	54.00	-28.70	AVG	
9	5085.000	45.08	-11.47	33.61	74.00	-40.39	peak	
10	5085.000	38.24	-11.47	26.77	54.00	-27.23	AVG	
11	5975.000	46.27	-10.75	35.52	74.00	-38.48	peak	
12	5975.000	38.29	-10.75	27.54	54.00	-26.46	AVG	

Radiated Emission

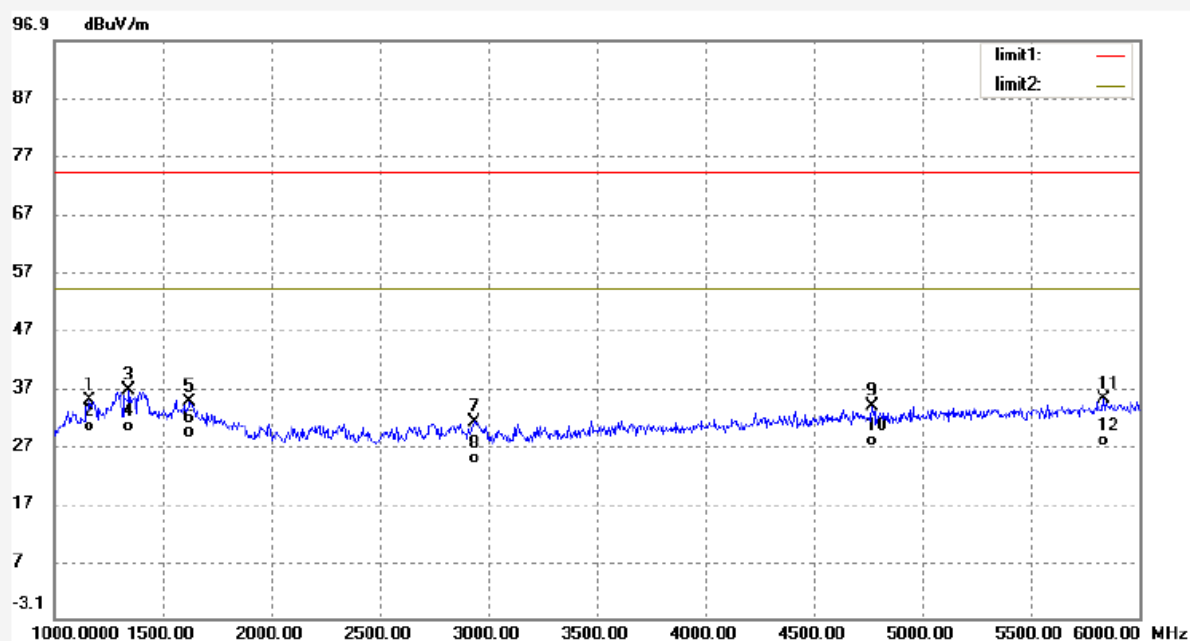
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : DTV
Test specification : Vertical, high channel, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.4238	53.46	-18.66	34.80	40.00	-5.20	peak	
2	32.9791	54.26	-19.96	34.30	40.00	-5.70	peak	
3	61.5618	50.95	-23.29	27.66	40.00	-12.34	peak	
4	96.0985	52.71	-24.48	28.23	43.50	-15.27	peak	
5	324.4561	54.63	-18.93	35.70	46.00	-10.30	QP	
6	522.7179	45.86	-13.69	32.17	46.00	-13.83	peak	

Radiated Emission

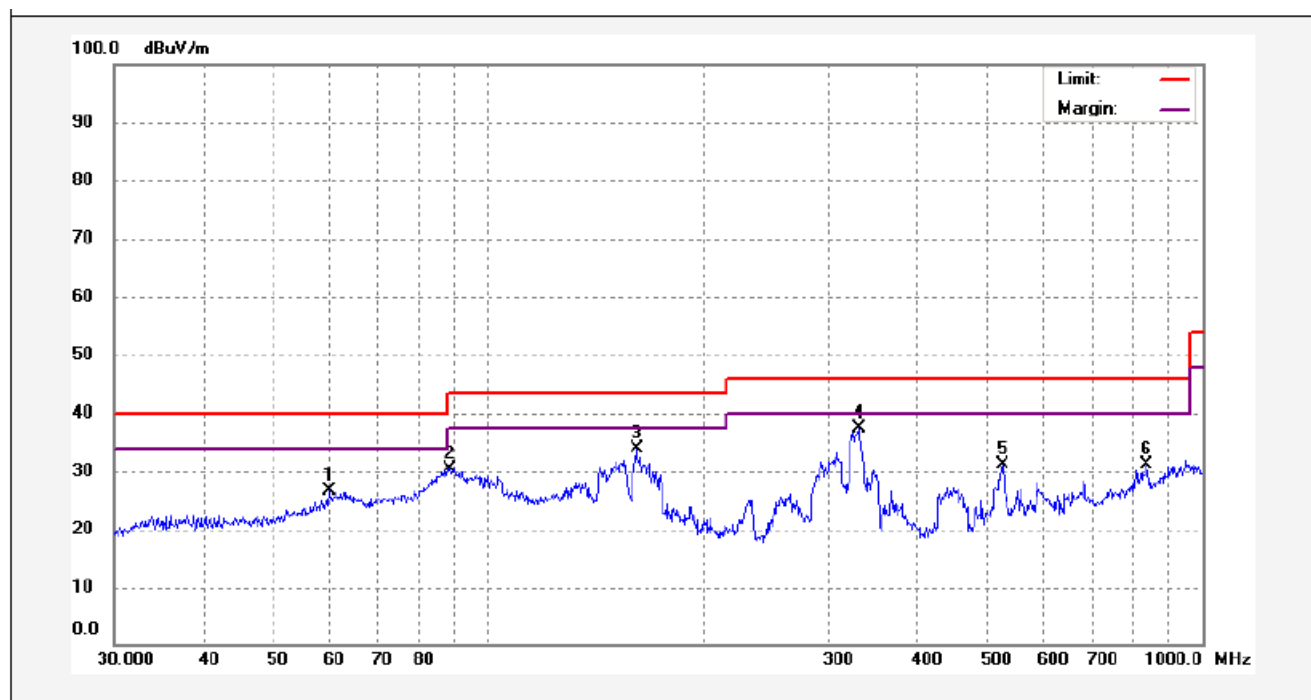
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : DTV
Test specification : Vertical, high channel, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1160.000	52.64	-17.97	34.67	74.00	-39.33	peak	
2	1160.000	47.26	-17.97	29.29	54.00	-24.71	AVG	
3	1345.000	53.68	-17.05	36.63	74.00	-37.37	peak	
4	1345.000	46.27	-17.05	29.22	54.00	-24.78	AVG	
5	1625.000	52.40	-17.93	34.47	74.00	-39.53	peak	
6	1625.000	46.23	-17.93	28.30	54.00	-25.70	AVG	
7	2935.000	45.92	-14.77	31.15	74.00	-42.85	peak	
8	2935.000	38.52	-14.77	23.75	54.00	-30.25	AVG	
9	4770.000	45.76	-12.02	33.74	74.00	-40.26	peak	
10	4770.000	38.70	-12.02	26.68	54.00	-27.32	AVG	
11	5835.000	45.84	-10.91	34.93	74.00	-39.07	peak	
12	5835.000	37.68	-10.91	26.77	54.00	-27.23	AVG	

Radiated Emission

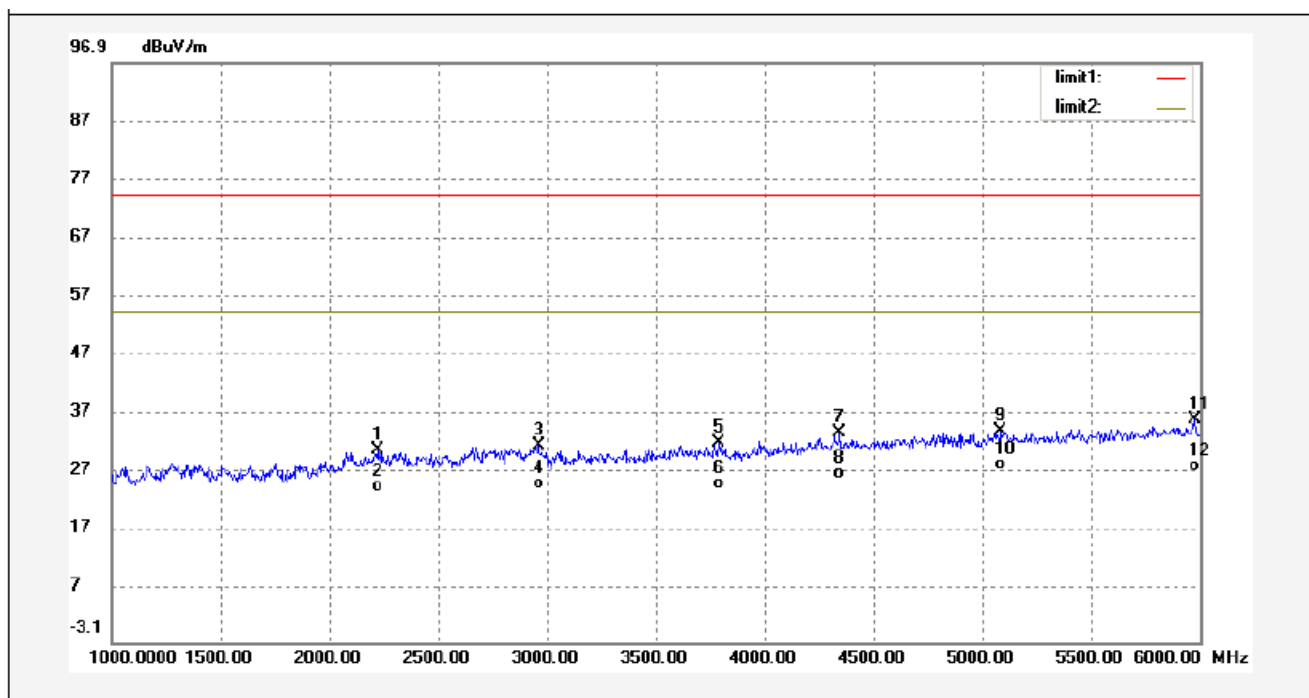
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : DTV
 Test specification : Horizontal, high channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	60.0691	47.97	-21.28	26.69	40.00	-13.31	peak	
2	88.6524	55.90	-25.52	30.38	43.50	-13.12	peak	
3	161.4742	54.59	-20.77	33.82	43.50	-9.68	peak	
4	330.1949	56.01	-18.72	37.29	46.00	-8.71	peak	
5	524.5541	44.91	-13.79	31.12	46.00	-14.88	peak	
6	833.3171	37.97	-6.95	31.02	46.00	-14.98	peak	

Radiated Emission

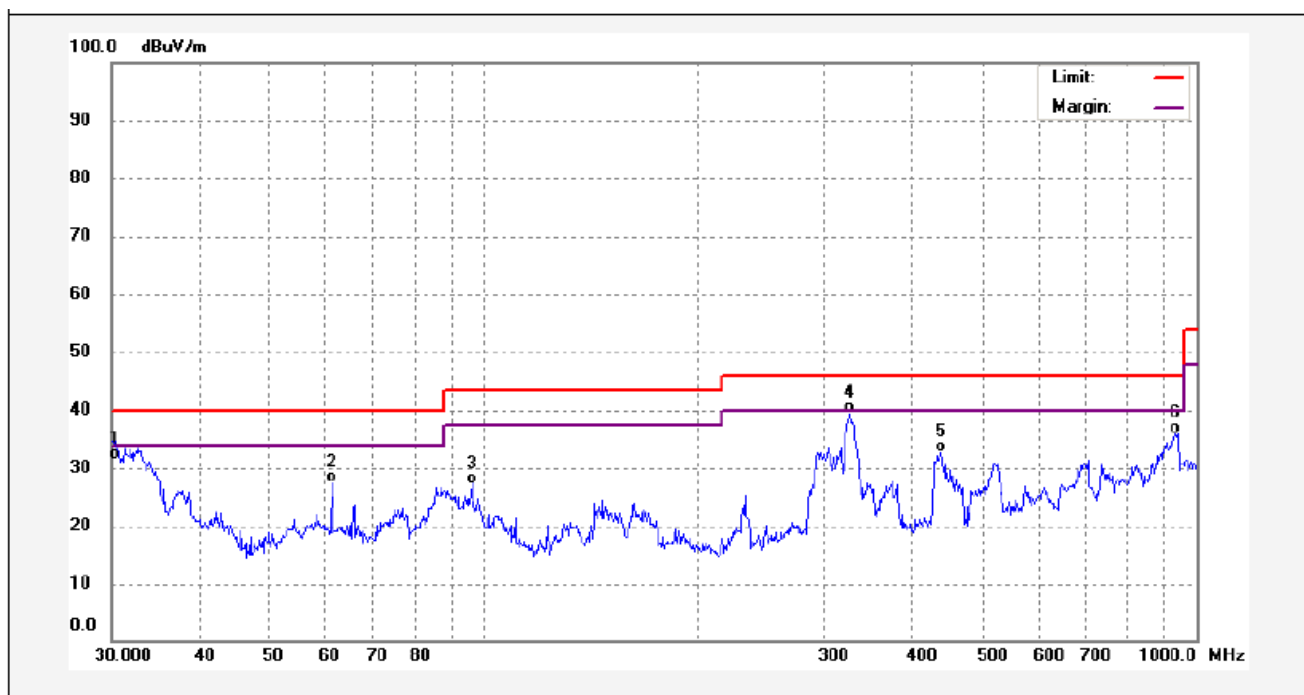
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : DTV
Test specification : Horizontal, high channel, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2220.000	45.47	-15.17	30.30	74.00	-43.70	peak	
2	2220.000	38.25	-15.17	23.08	54.00	-30.92	AVG	
3	2960.000	45.84	-14.76	31.08	74.00	-42.92	peak	
4	2960.000	38.26	-14.76	23.50	54.00	-30.50	AVG	
5	3790.000	45.22	-13.80	31.42	74.00	-42.58	peak	
6	3790.000	37.25	-13.80	23.45	54.00	-30.55	AVG	
7	4345.000	46.34	-12.95	33.39	74.00	-40.61	peak	
8	4345.000	38.14	-12.95	25.19	54.00	-28.81	AVG	
9	5085.000	45.08	-11.47	33.61	74.00	-40.39	peak	
10	5085.000	38.26	-11.47	26.79	54.00	-27.21	AVG	
11	5975.000	46.27	-10.75	35.52	74.00	-38.48	peak	
12	5975.000	37.26	-10.75	26.51	54.00	-27.49	AVG	

Radiated Emission

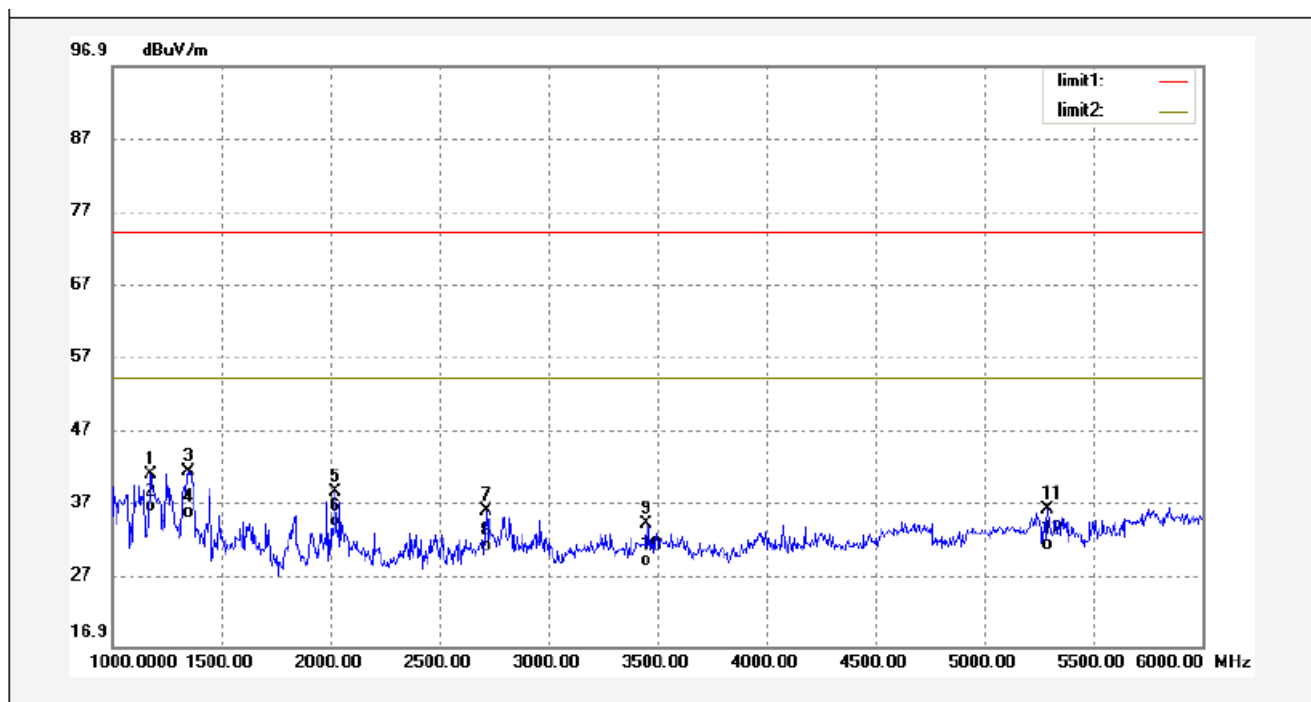
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Vertical, low channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.0000	49.58	-18.29	31.29	40.00	-8.71	QP	
2	61.1316	50.56	-23.28	27.28	40.00	-12.72	QP	
3	96.0986	51.73	-24.48	27.25	43.50	-16.25	QP	
4	326.7395	58.19	-18.88	39.31	46.00	-6.69	QP	
5	438.6554	48.47	-15.78	32.69	46.00	-13.31	QP	
6	935.5463	40.80	-4.94	35.86	46.00	-10.14	QP	

Radiated Emission

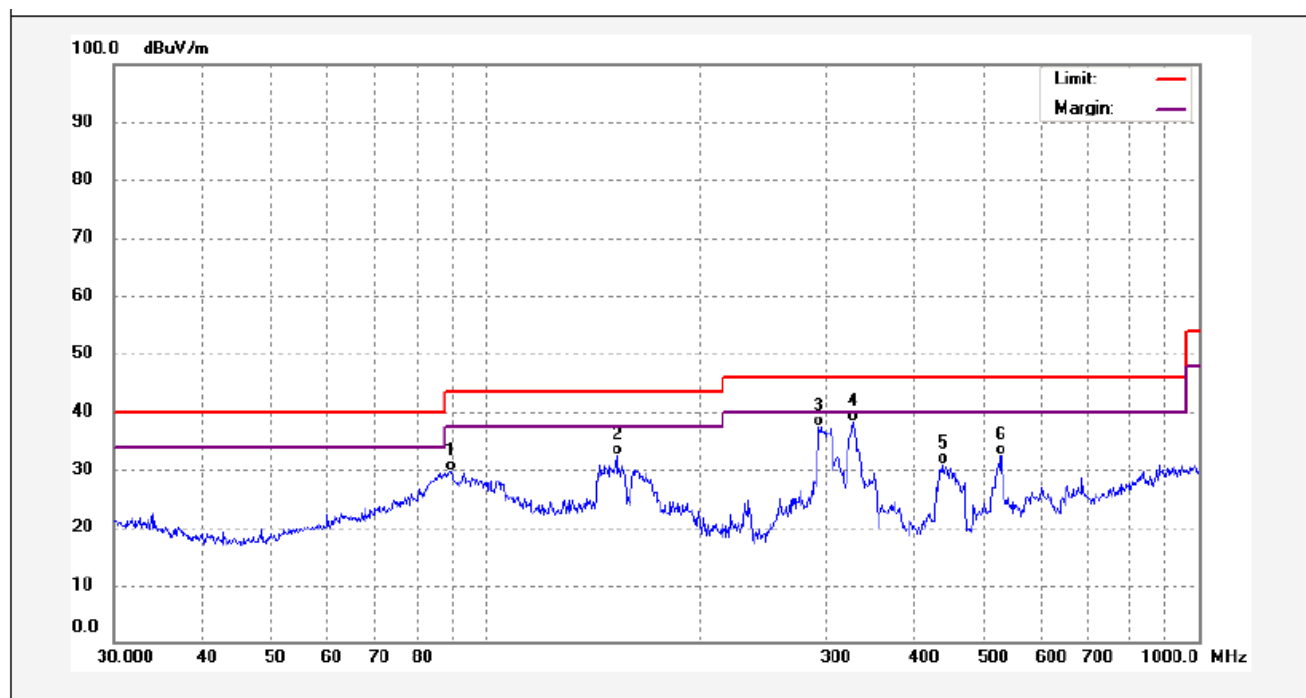
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Vertical, low channel, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1175.000	58.73	-17.86	40.87	74.00	-33.13	peak	
2	1175.000	53.39	-17.86	35.53	54.00	-18.47	AVG	
3	1350.000	58.29	-17.03	41.26	74.00	-32.74	peak	
4	1350.000	51.74	-17.03	34.71	54.00	-19.29	AVG	
5	2025.000	54.87	-16.46	38.41	74.00	-35.59	peak	
6	2025.000	50.08	-16.46	33.62	54.00	-20.38	AVG	
7	2715.000	50.81	-15.01	35.80	74.00	-38.20	peak	
8	2715.000	45.18	-15.01	30.17	54.00	-23.83	AVG	
9	3450.000	48.59	-14.62	33.97	74.00	-40.03	peak	
10	3450.000	42.88	-14.62	28.26	54.00	-25.74	AVG	
11	5290.000	47.98	-11.92	36.06	74.00	-37.94	peak	
12	5290.000	42.36	-11.92	30.44	54.00	-23.56	AVG	

Radiated Emission

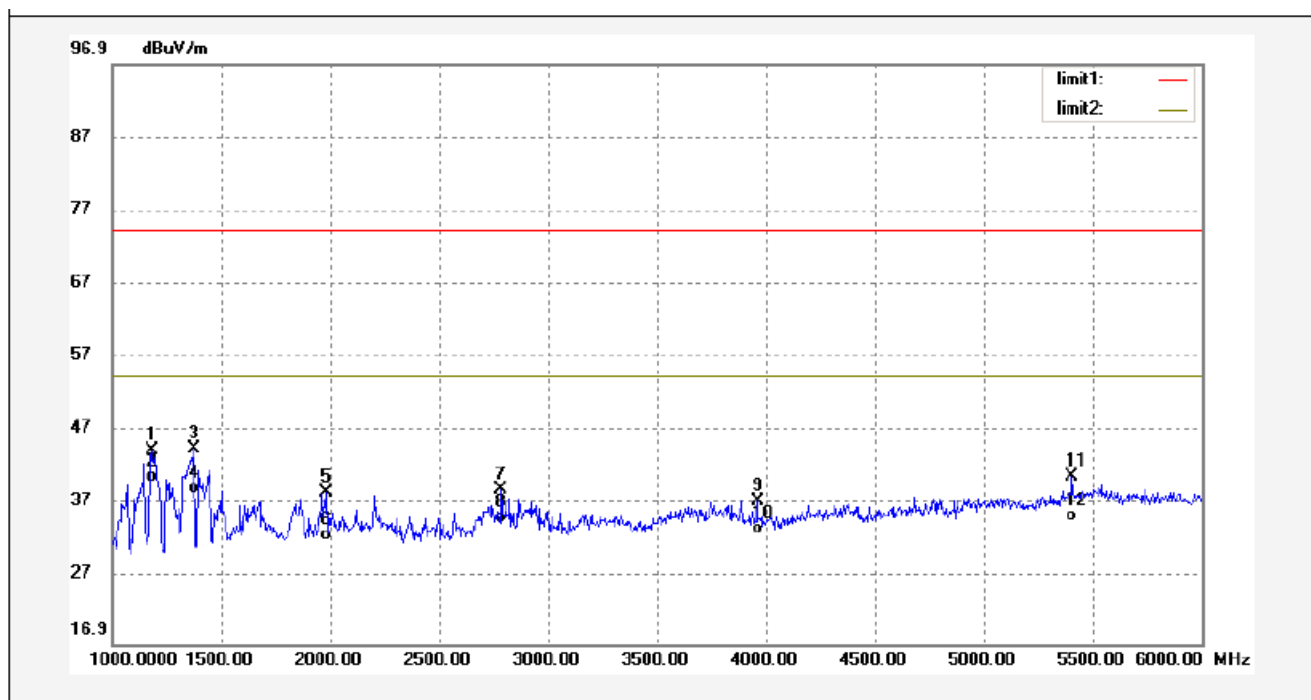
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Horizontal, low channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	89.2762	55.14	-25.46	29.68	43.50	-13.82	QP	
2	152.6641	53.16	-20.72	32.44	43.50	-11.06	QP	
3	293.0842	57.37	-19.87	37.50	46.00	-8.50	QP	
4	327.8872	56.85	-18.79	38.06	46.00	-7.94	QP	
5	437.1199	46.56	-15.64	30.92	46.00	-15.08	QP	
6	528.2458	46.05	-13.70	32.35	46.00	-13.65	QP	

Radiated Emission

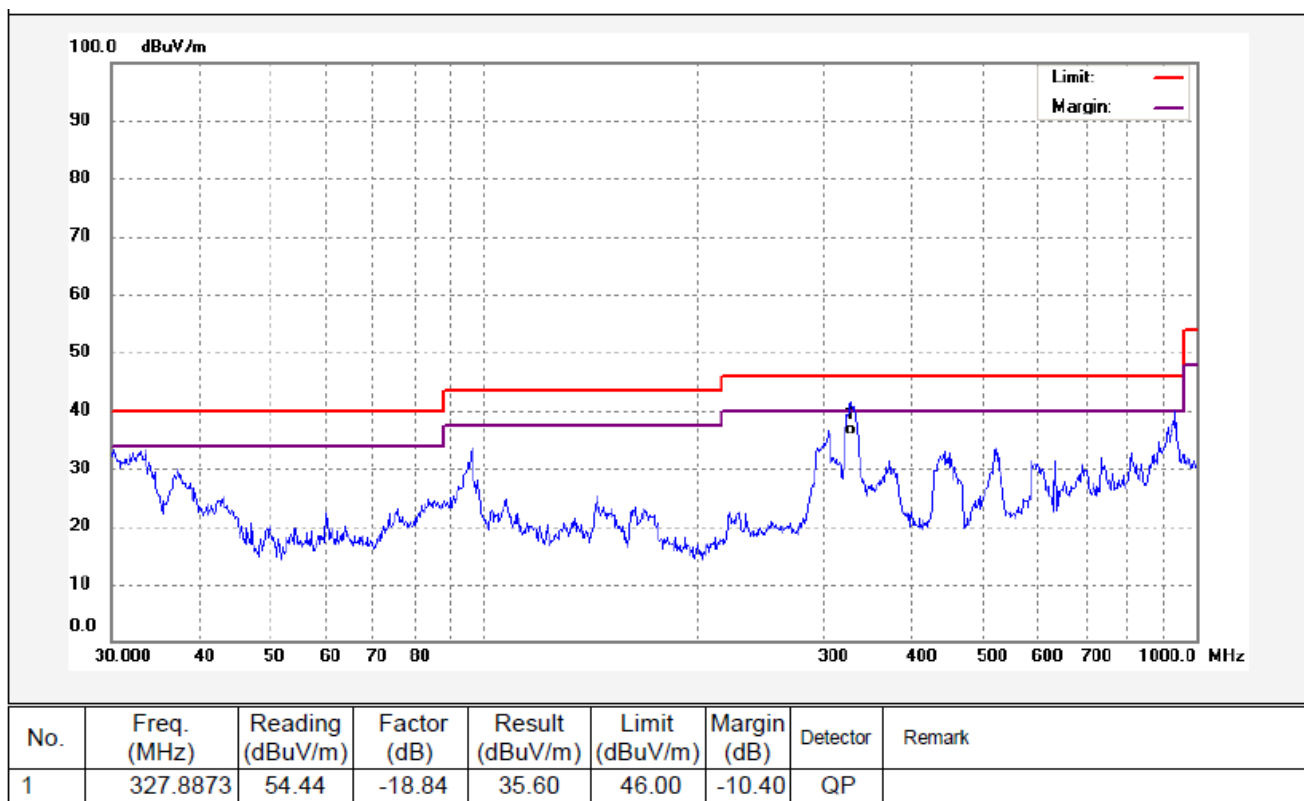
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Horizontal, low channel, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1180.000	61.64	-17.81	43.83	74.00	-30.17	peak	
2	1180.000	57.15	-17.81	39.34	54.00	-14.66	AVG	
3	1375.000	61.24	-17.19	44.05	74.00	-29.95	peak	
4	1375.000	55.06	-17.19	37.87	54.00	-16.13	AVG	
5	1985.000	54.93	-16.92	38.01	74.00	-35.99	peak	
6	1985.000	48.23	-16.92	31.31	54.00	-22.69	AVG	
7	2785.000	53.30	-14.83	38.47	74.00	-35.53	peak	
8	2785.000	48.59	-14.83	33.76	54.00	-20.24	AVG	
9	3960.000	50.35	-13.49	36.86	74.00	-37.14	peak	
10	3960.000	45.74	-13.49	32.25	54.00	-21.75	AVG	
11	5405.000	51.97	-11.78	40.19	74.00	-33.81	peak	
12	5405.000	45.69	-11.78	33.91	54.00	-20.09	AVG	

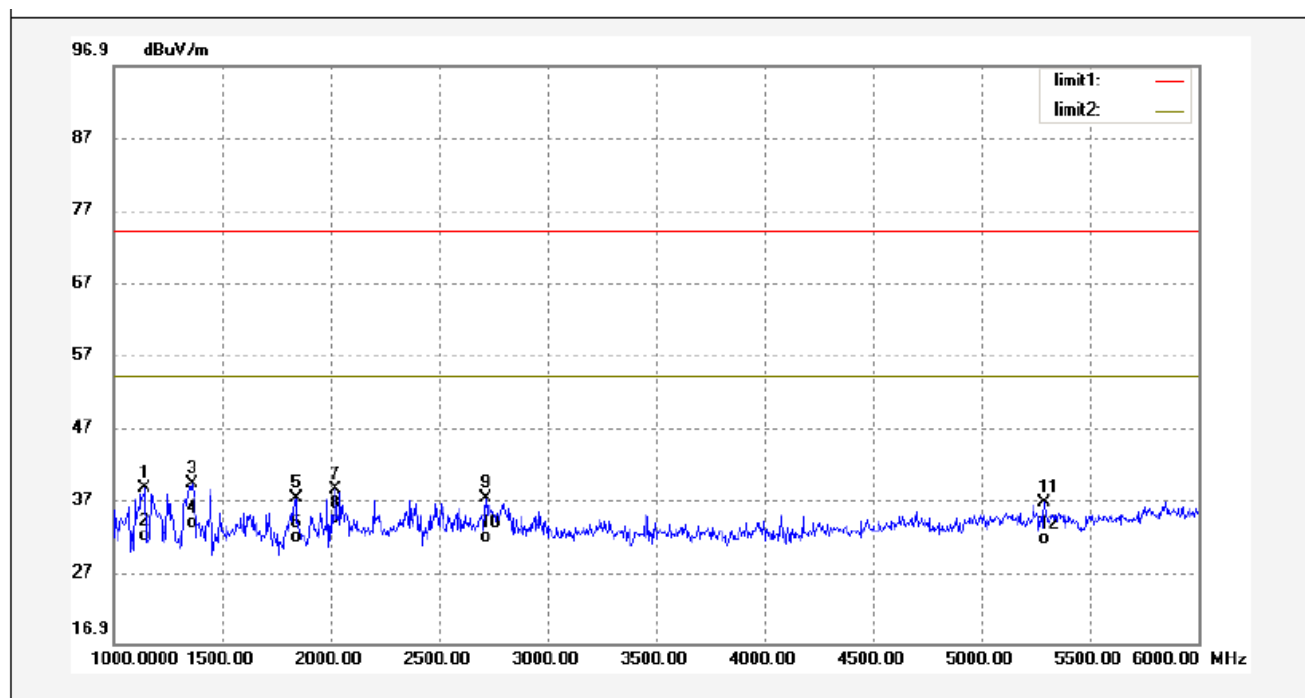
Radiated Emission

Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Vertical, middle channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



Radiated Emission

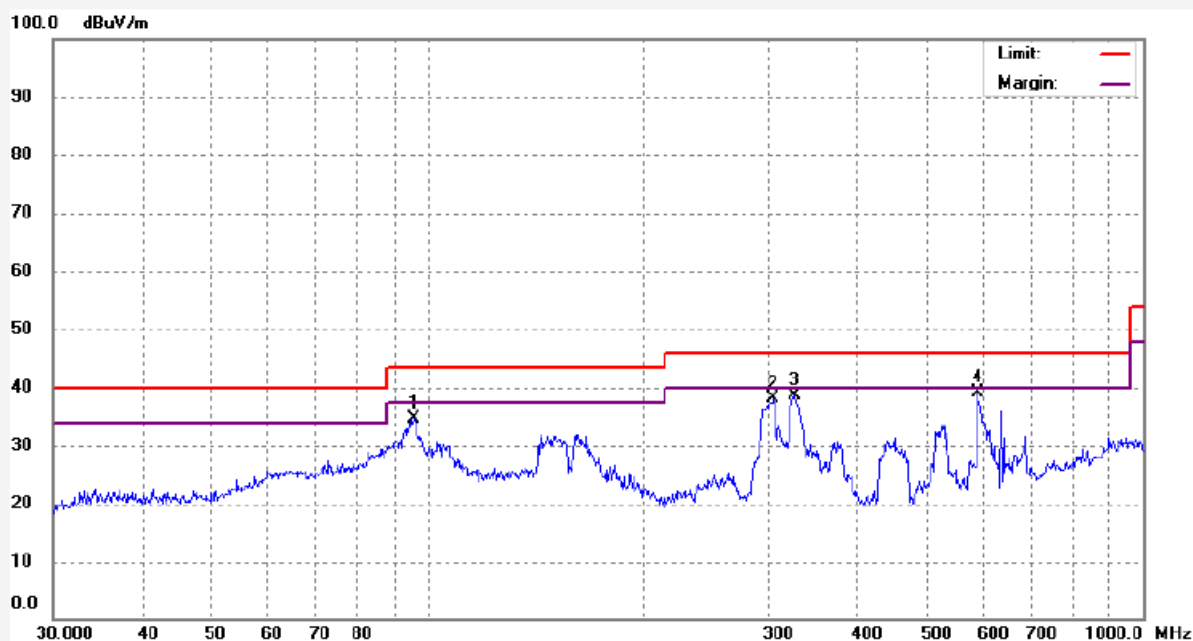
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Vertical, middle channel, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1145.000	56.64	-18.07	38.57	74.00	-35.43	peak	
2	1145.000	49.36	-18.07	31.29	54.00	-22.71	AVG	
3	1360.000	56.27	-17.09	39.18	74.00	-34.82	peak	
4	1360.000	50.14	-17.09	33.05	54.00	-20.95	AVG	
5	1840.000	54.69	-17.47	37.22	74.00	-36.78	peak	
6	1840.000	48.52	-17.47	31.05	54.00	-22.95	AVG	
7	2025.000	54.87	-16.46	38.41	74.00	-35.59	peak	
8	2025.000	50.06	-16.46	33.60	54.00	-20.40	AVG	
9	2715.000	52.31	-15.01	37.30	74.00	-36.70	peak	
10	2715.000	45.97	-15.01	30.96	54.00	-23.04	AVG	
11	5290.000	48.48	-11.92	36.56	74.00	-37.44	peak	
12	5290.000	42.66	-11.92	30.74	54.00	-23.26	AVG	

Radiated Emission

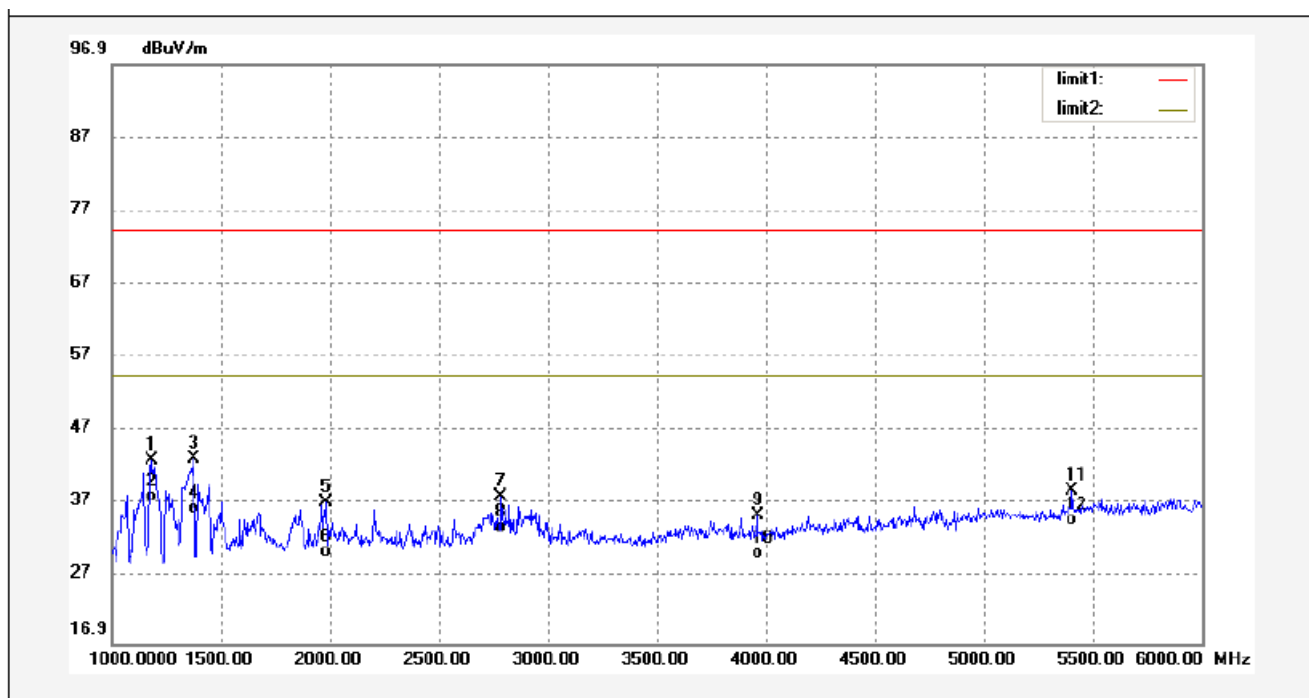
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Horizontal, middle channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	95.7622	59.68	-25.01	34.67	43.50	-8.83	peak	
2	304.6099	57.75	-19.52	38.23	46.00	-7.77	peak	
3	326.7395	57.56	-18.83	38.73	46.00	-7.27	peak	
4	586.8437	51.09	-11.90	39.19	46.00	-6.81	peak	

Radiated Emission

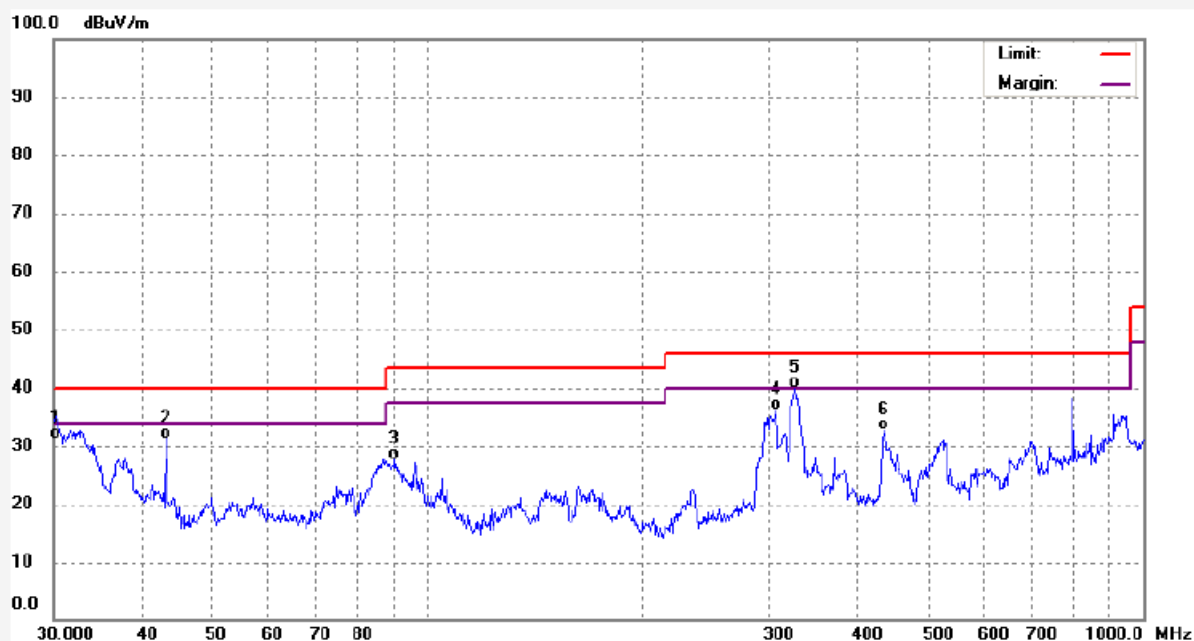
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : ATV
Test specification : Horizontal, middle channel, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1180.000	60.14	-17.81	42.33	74.00	-31.67	peak	
2	1180.000	54.46	-17.81	36.65	54.00	-17.35	AVG	
3	1375.000	59.74	-17.19	42.55	74.00	-31.45	peak	
4	1375.000	52.26	-17.19	35.07	54.00	-18.93	AVG	
5	1985.000	53.43	-16.92	36.51	74.00	-37.49	peak	
6	1985.000	45.85	-16.92	28.93	54.00	-25.07	AVG	
7	2785.000	52.30	-14.83	37.47	74.00	-36.53	peak	
8	2785.000	47.17	-14.83	32.34	54.00	-21.66	AVG	
9	3960.000	48.35	-13.49	34.86	74.00	-39.14	peak	
10	3960.000	42.22	-13.49	28.73	54.00	-25.27	AVG	
11	5405.000	49.97	-11.78	38.19	74.00	-35.81	peak	
12	5405.000	45.21	-11.78	33.43	54.00	-20.57	AVG	

Radiated Emission

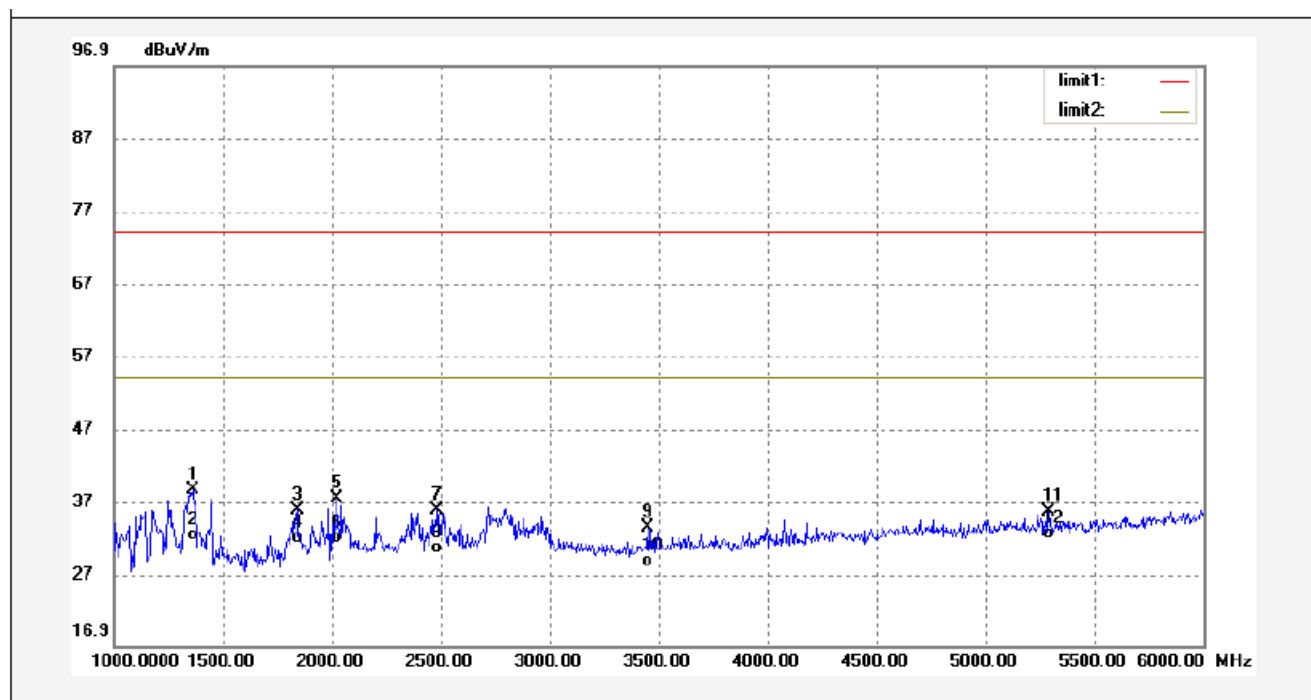
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Vertical, high channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.2111	49.61	-18.47	31.14	40.00	-8.86	QP	
2	43.0505	52.88	-21.63	31.25	40.00	-8.75	QP	
3	89.9047	51.94	-24.19	27.75	43.50	-15.75	QP	
4	306.7537	55.59	-19.45	36.14	46.00	-9.86	QP	
5	326.7395	58.79	-18.88	39.91	46.00	-6.09	QP	
6	434.0651	48.50	-15.89	32.61	46.00	-13.39	QP	

Radiated Emission

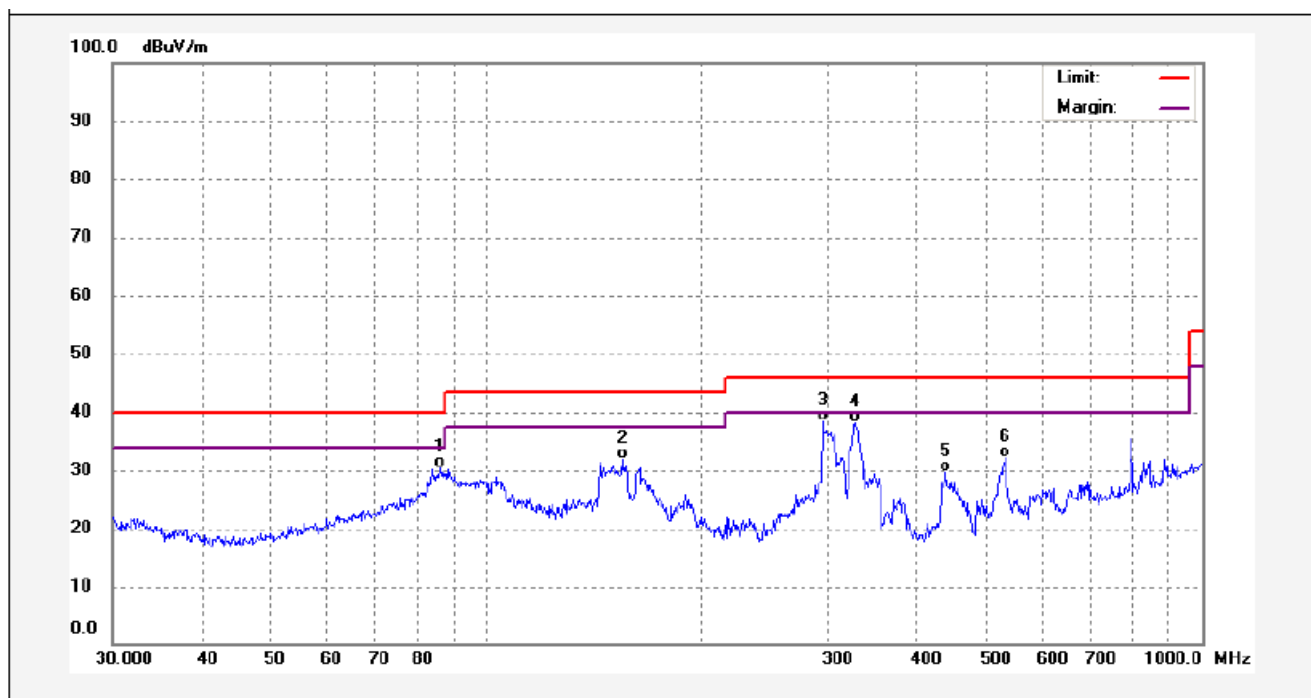
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : ATV
Test specification : Vertical, high channel, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1360.000	55.77	-17.09	38.68	74.00	-35.32	peak	
2	1360.000	48.62	-17.09	31.53	54.00	-22.47	AVG	
3	1840.000	53.19	-17.47	35.72	74.00	-38.28	peak	
4	1840.000	48.72	-17.47	31.25	54.00	-22.75	AVG	
5	2025.000	53.87	-16.46	37.41	74.00	-36.59	peak	
6	2025.000	47.62	-16.46	31.16	54.00	-22.84	AVG	
7	2485.000	51.49	-15.67	35.82	74.00	-38.18	peak	
8	2485.000	45.44	-15.67	29.77	54.00	-24.23	AVG	
9	3450.000	48.09	-14.62	33.47	74.00	-40.53	peak	
10	3450.000	42.58	-14.62	27.96	54.00	-26.04	AVG	
11	5290.000	47.48	-11.92	35.56	74.00	-38.44	peak	
12	5290.000	43.65	-11.92	31.73	54.00	-22.27	AVG	

Radiated Emission

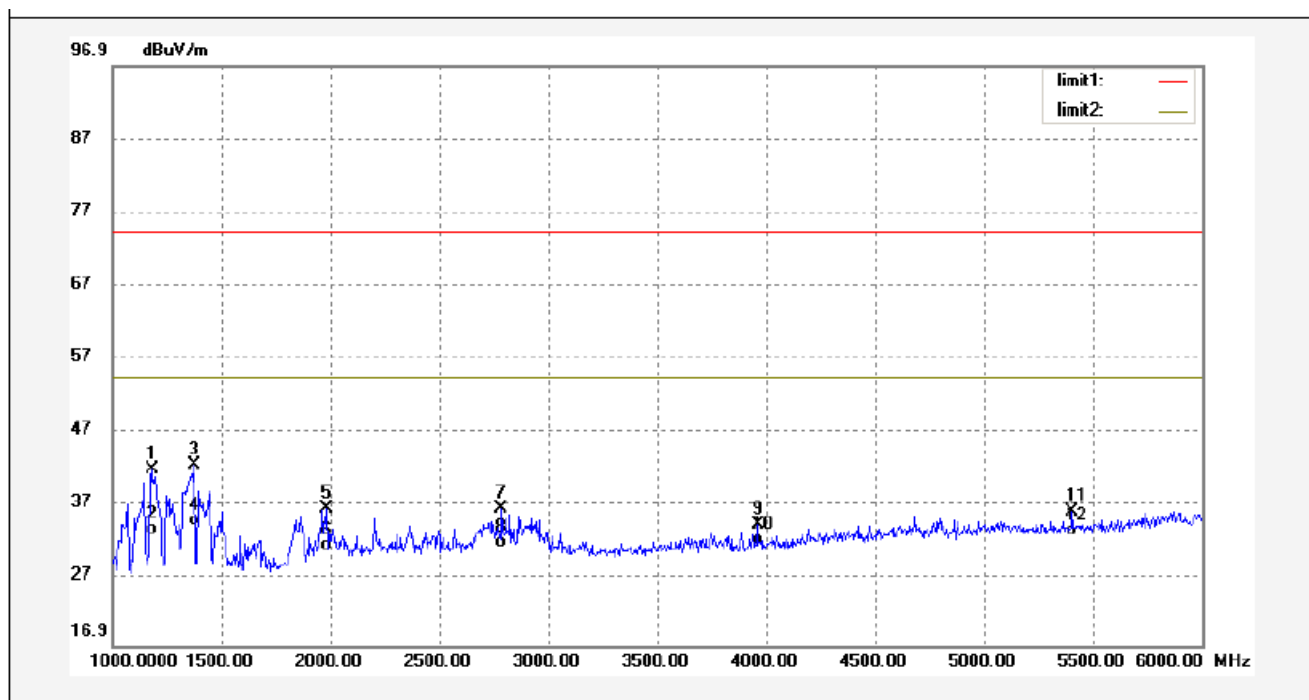
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Horizontal, high channel, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	86.2000	56.12	-25.76	30.36	40.00	-9.64	QP	
2	154.8204	52.63	-20.72	31.91	43.50	-11.59	QP	
3	295.1468	58.18	-19.80	38.38	46.00	-7.62	QP	
4	327.8872	56.87	-18.79	38.08	46.00	-7.92	QP	
5	438.6554	45.20	-15.59	29.61	46.00	-16.39	QP	
6	530.1013	45.74	-13.65	32.09	46.00	-13.91	QP	

Radiated Emission

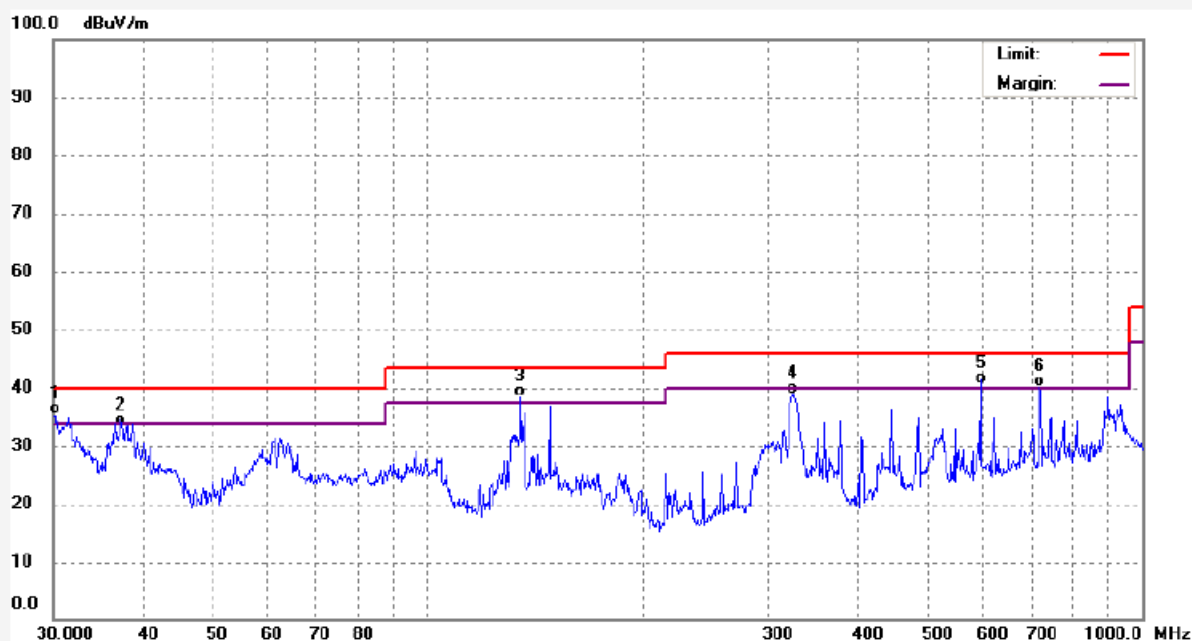
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : ATV
 Test specification : Horizontal, high channel, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1180.000	59.14	-17.81	41.33	74.00	-32.67	peak	
2	1180.000	50.28	-17.81	32.47	54.00	-21.53	AVG	
3	1375.000	59.24	-17.19	42.05	74.00	-31.95	peak	
4	1375.000	50.87	-17.19	33.68	54.00	-20.32	AVG	
5	1985.000	52.93	-16.92	36.01	74.00	-37.99	peak	
6	1985.000	47.15	-16.92	30.23	54.00	-23.77	AVG	
7	2785.000	50.80	-14.83	35.97	74.00	-38.03	peak	
8	2785.000	45.47	-14.83	30.64	54.00	-23.36	AVG	
9	3960.000	47.35	-13.49	33.86	74.00	-40.14	peak	
10	3960.000	44.52	-13.49	31.03	54.00	-22.97	AVG	
11	5405.000	47.47	-11.78	35.69	74.00	-38.31	peak	
12	5405.000	43.99	-11.78	32.21	54.00	-21.79	AVG	

Radiated Emission

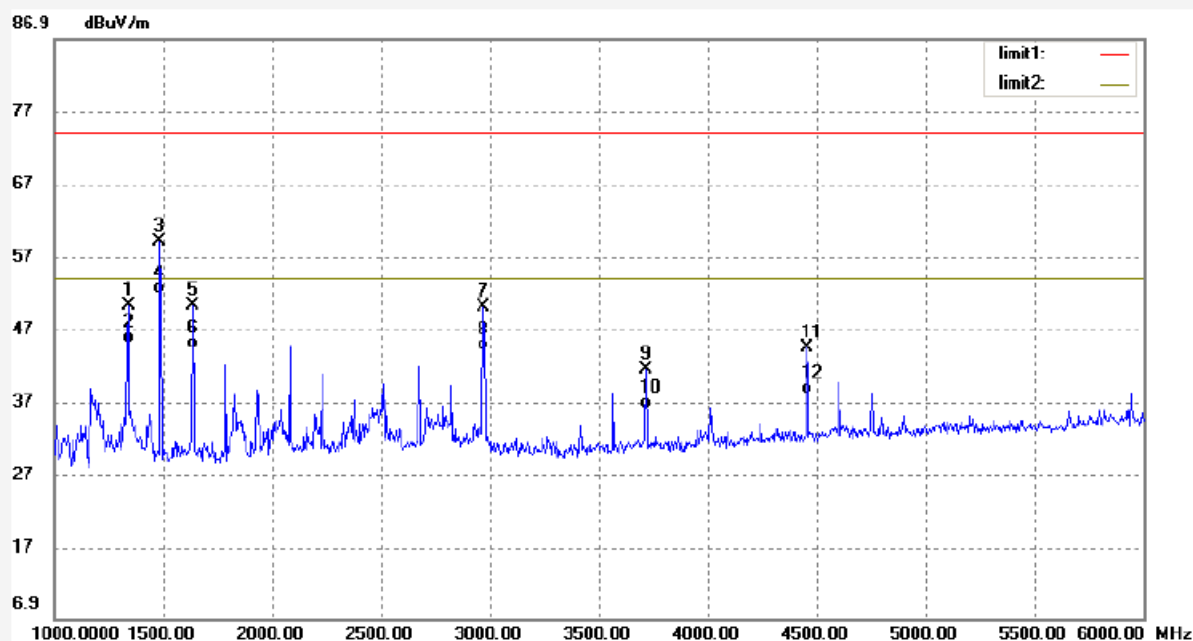
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : HDMI
Test specification : Vertical, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.0000	53.75	-18.29	35.46	40.00	-4.54	QP	
2	37.2855	53.77	-20.42	33.35	40.00	-6.65	QP	
3	135.0319	60.32	-21.92	38.40	43.50	-5.10	QP	
4	324.4561	57.83	-18.93	38.90	46.00	-7.10	QP	
5	595.1329	52.10	-11.58	40.52	46.00	-5.48	QP	
6	719.1995	49.24	-9.23	40.01	46.00	-5.99	QP	

Radiated Emission

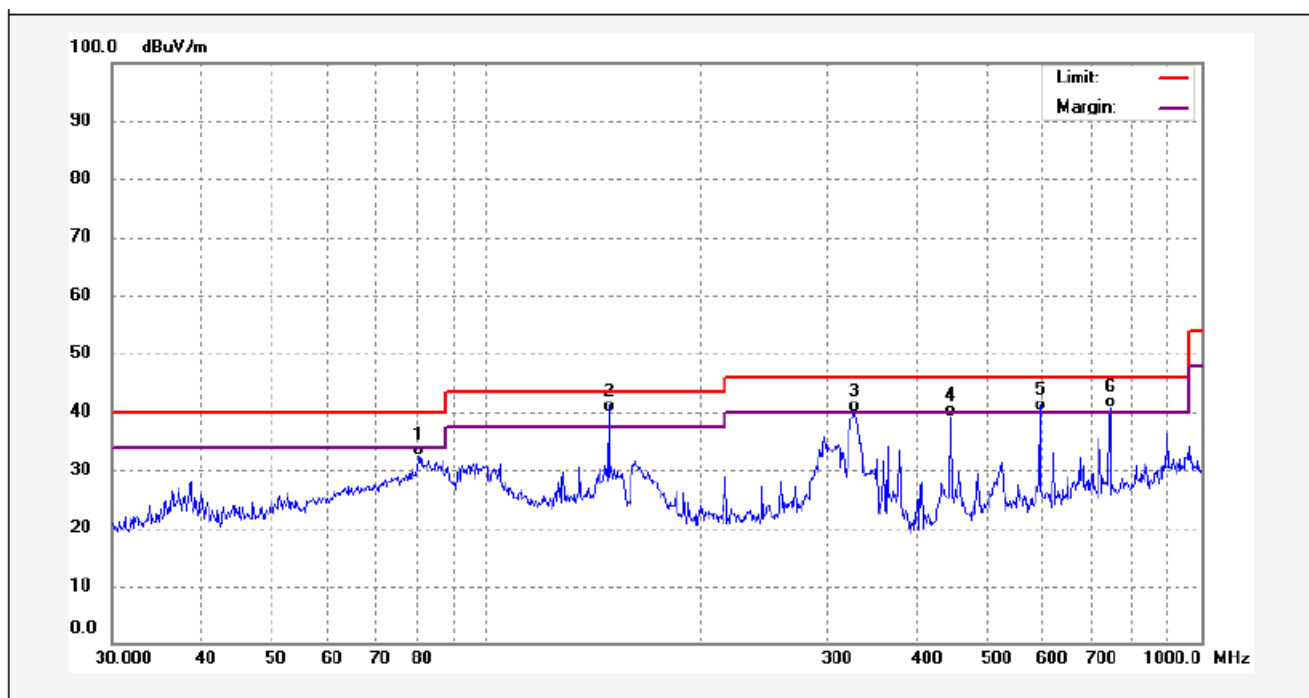
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : HDMI
Test specification : Vertical, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1340.000	67.37	-17.07	50.30	74.00	-23.70	peak	
2	1340.000	62.15	-17.07	45.08	54.00	-8.92	AVG	
3	1485.000	76.43	-17.51	58.92	74.00	-15.08	peak	
4	1485.000	69.34	-17.51	51.83	54.00	-2.17	AVG	
5	1635.000	68.16	-17.95	50.21	74.00	-23.79	peak	
6	1635.000	62.15	-17.95	44.20	54.00	-9.80	AVG	
7	2970.000	64.79	-14.75	50.04	74.00	-23.96	peak	
8	2970.000	58.69	-14.75	43.94	54.00	-10.06	AVG	
9	3715.000	55.32	-13.99	41.33	74.00	-32.67	peak	
10	3715.000	50.05	-13.99	36.06	54.00	-17.94	AVG	
11	4455.000	57.27	-12.84	44.43	74.00	-29.57	peak	
12	4455.000	50.85	-12.84	38.01	54.00	-15.99	AVG	

Radiated Emission

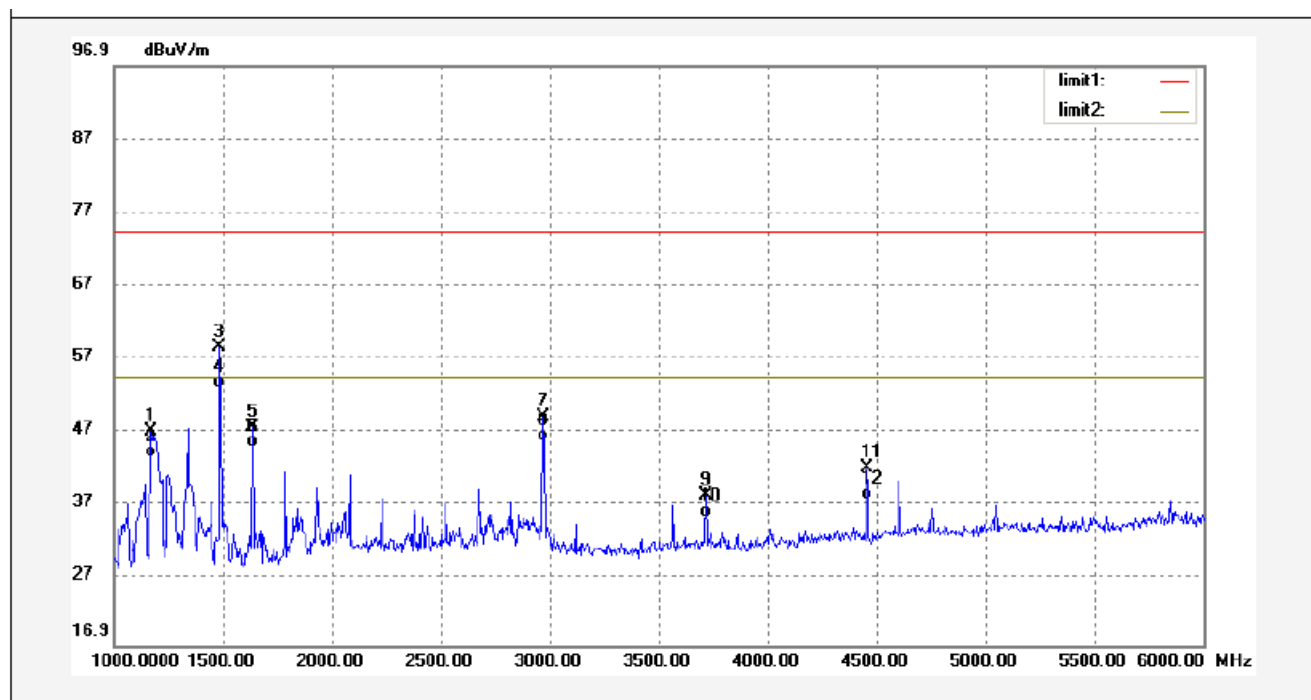
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : HDMI
Test specification : Horizontal, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	80.6442	58.05	-25.70	32.35	40.00	-7.65	QP	
2	148.4410	60.63	-20.83	39.80	43.50	-3.70	QP	
3	327.8873	58.76	-18.79	39.97	46.00	-6.03	QP	
4	446.4141	54.51	-15.39	39.12	46.00	-6.88	QP	
5	595.1329	51.86	-11.61	40.25	46.00	-5.75	QP	
6	744.8661	48.98	-8.28	40.70	46.00	-5.30	QP	

Radiated Emission

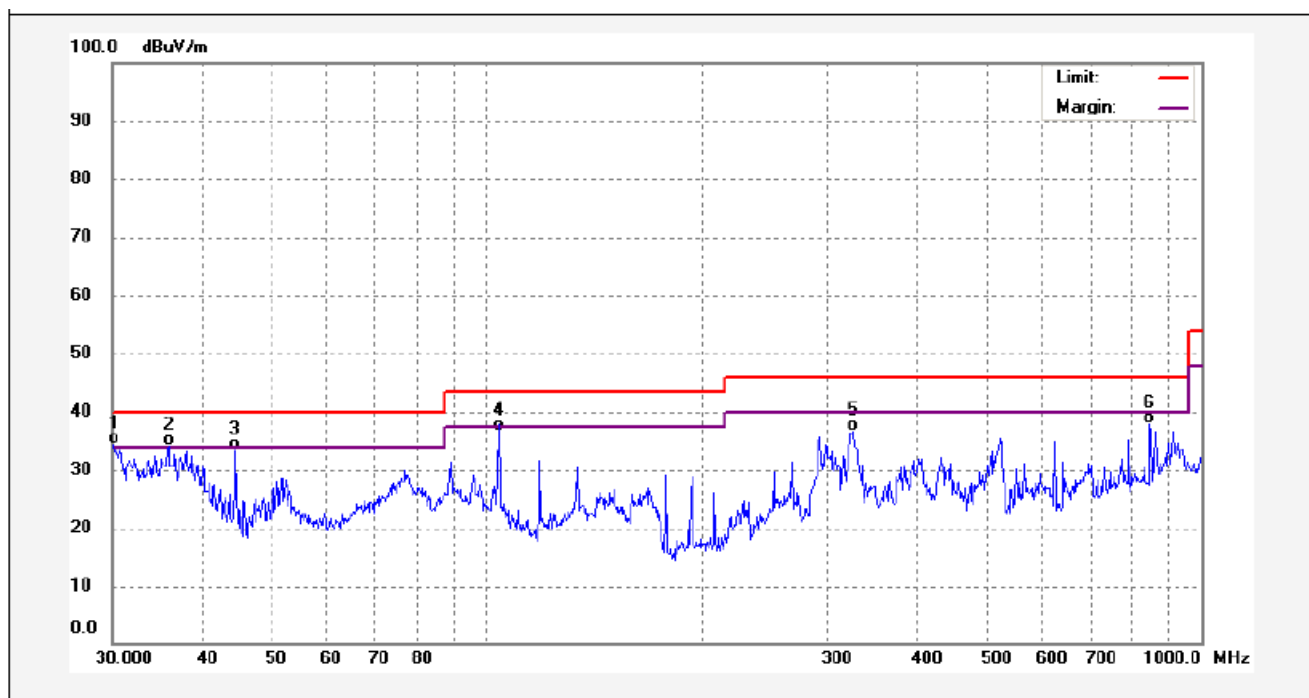
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : HDMI
Test specification : Horizontal, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1170.000	64.59	-17.90	46.69	74.00	-27.31	peak	
2	1170.000	60.95	-17.90	43.05	54.00	-10.95	AVG	
3	1485.000	75.75	-17.51	58.24	74.00	-15.76	peak	
4	1485.000	70.08	-17.51	52.57	54.00	-1.43	AVG	
5	1635.000	65.21	-17.95	47.26	74.00	-26.74	peak	
6	1635.000	62.31	-17.95	44.36	54.00	-9.64	AVG	
7	2970.000	63.41	-14.75	48.66	74.00	-25.34	peak	
8	2970.000	60.02	-14.75	45.27	54.00	-8.73	AVG	
9	3715.000	51.84	-13.99	37.85	74.00	-36.15	peak	
10	3715.000	48.75	-13.99	34.76	54.00	-19.24	AVG	
11	4455.000	54.41	-12.84	41.57	74.00	-32.43	peak	
12	4455.000	50.09	-12.84	37.25	54.00	-16.75	AVG	

Radiated Emission

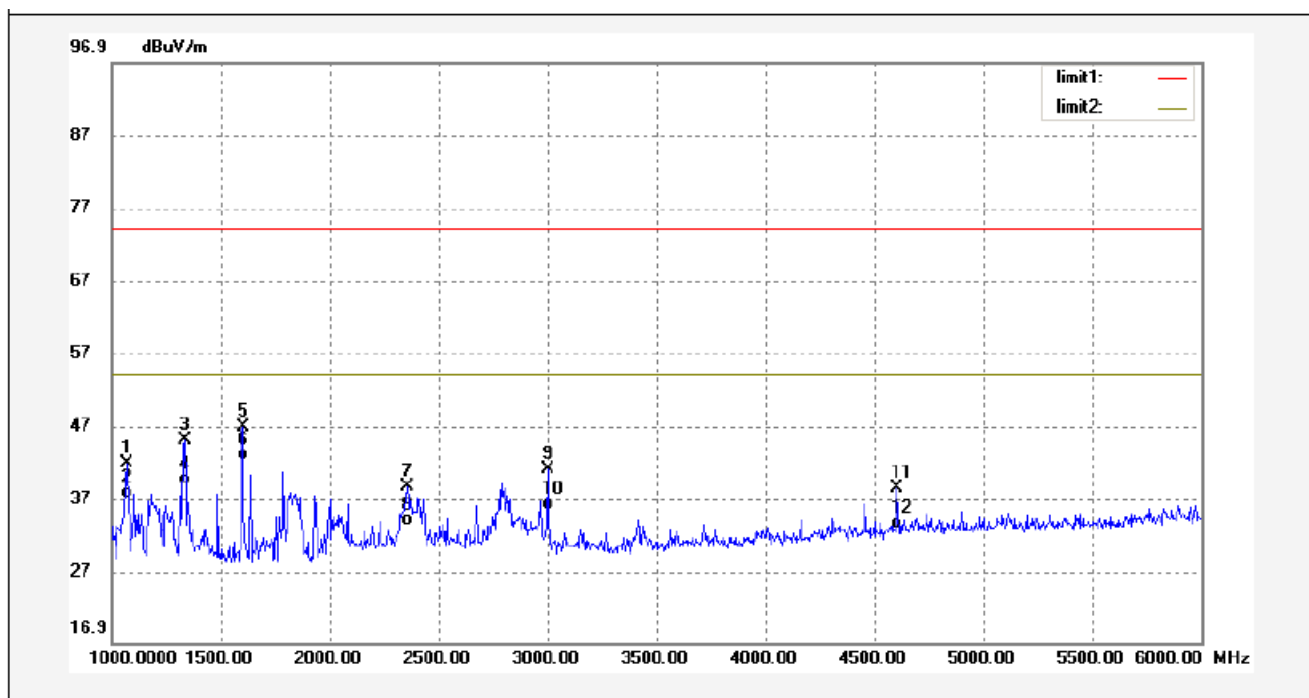
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : VGA
Test specification : Vertical, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.1054	52.68	-18.38	34.30	40.00	-5.70	QP	
2	36.0007	54.26	-20.15	34.11	40.00	-5.89	QP	
3	44.5868	55.43	-21.96	33.47	40.00	-6.53	QP	
4	104.1701	60.93	-24.34	36.59	43.50	-6.91	QP	
5	326.7395	55.61	-18.88	36.73	46.00	-9.27	QP	
6	848.0563	44.53	-6.69	37.84	46.00	-8.16	QP	

Radiated Emission

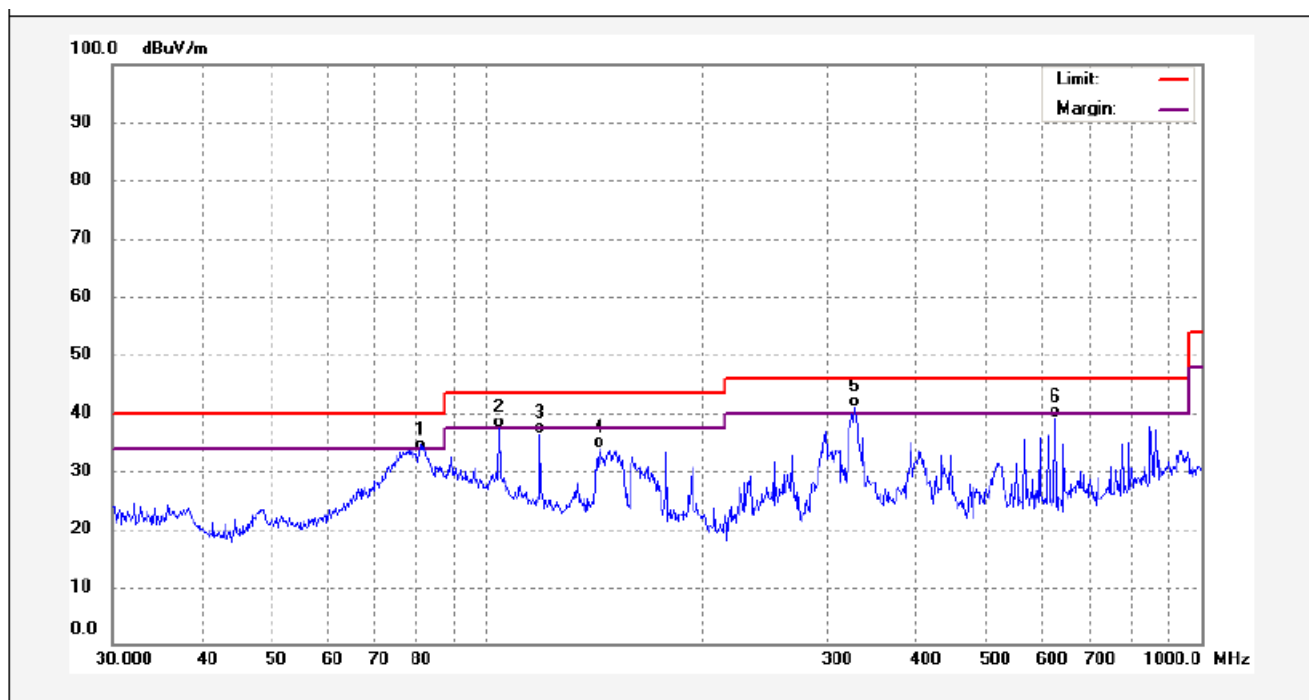
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : VGA
Test specification : Vertical, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1070.000	60.15	-18.29	41.86	74.00	-32.14	peak	
2	1070.000	55.23	-18.29	36.94	54.00	-17.06	AVG	
3	1335.000	62.13	-17.08	45.05	74.00	-28.95	peak	
4	1335.000	55.87	-17.08	38.79	54.00	-15.21	AVG	
5	1600.000	64.60	-17.86	46.74	74.00	-27.26	peak	
6	1600.000	60.03	-17.86	42.17	54.00	-11.83	AVG	
7	2355.000	54.03	-15.44	38.59	74.00	-35.41	peak	
8	2355.000	48.69	-15.44	33.25	54.00	-20.75	AVG	
9	3000.000	55.79	-14.73	41.06	74.00	-32.94	peak	
10	3000.000	50.23	-14.73	35.50	54.00	-18.50	AVG	
11	4605.000	50.79	-12.45	38.34	74.00	-35.66	peak	
12	4605.000	45.21	-12.45	32.76	54.00	-21.24	AVG	

Radiated Emission

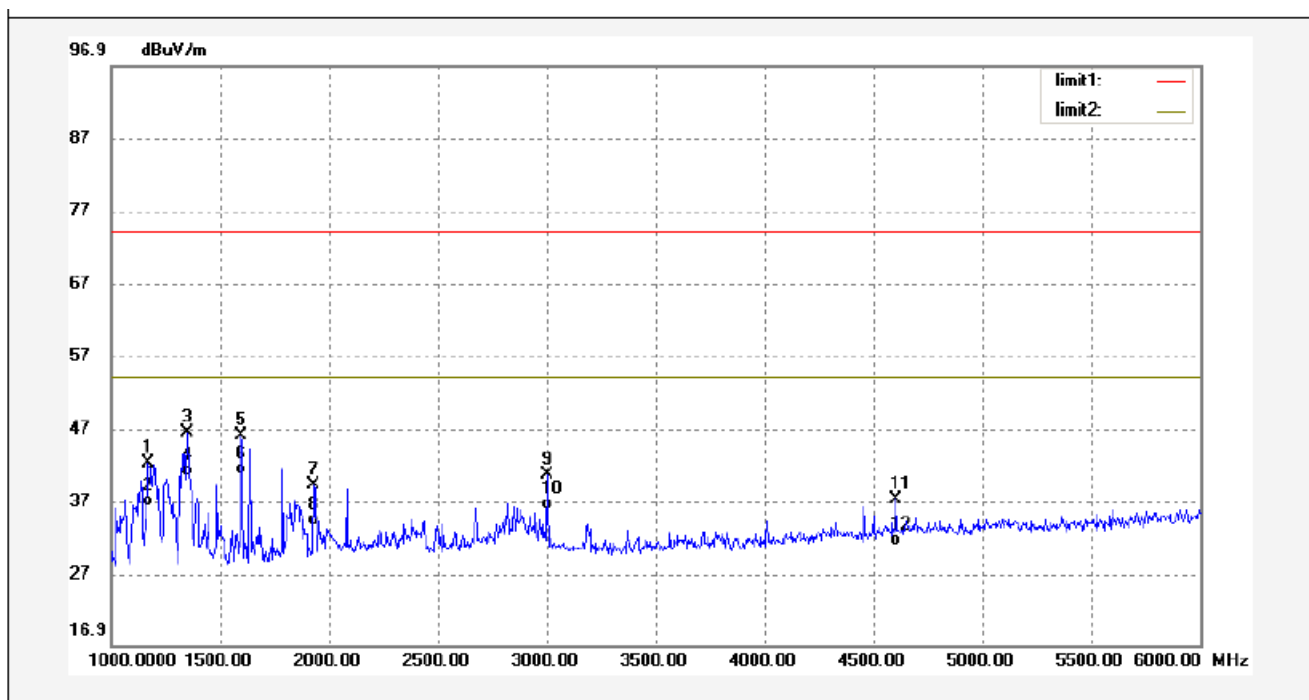
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : VGA
Test specification : Horizontal, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	80.9275	58.97	-25.71	33.26	40.00	-6.74	QP	
2	104.1701	61.72	-24.30	37.42	43.50	-6.08	QP	
3	119.0180	59.31	-22.88	36.43	43.50	-7.07	QP	
4	143.8295	55.06	-21.09	33.97	43.50	-9.53	QP	
5	327.8873	59.59	-18.79	40.80	46.00	-5.20	QP	
6	625.0780	50.33	-11.17	39.16	46.00	-6.84	QP	

Radiated Emission

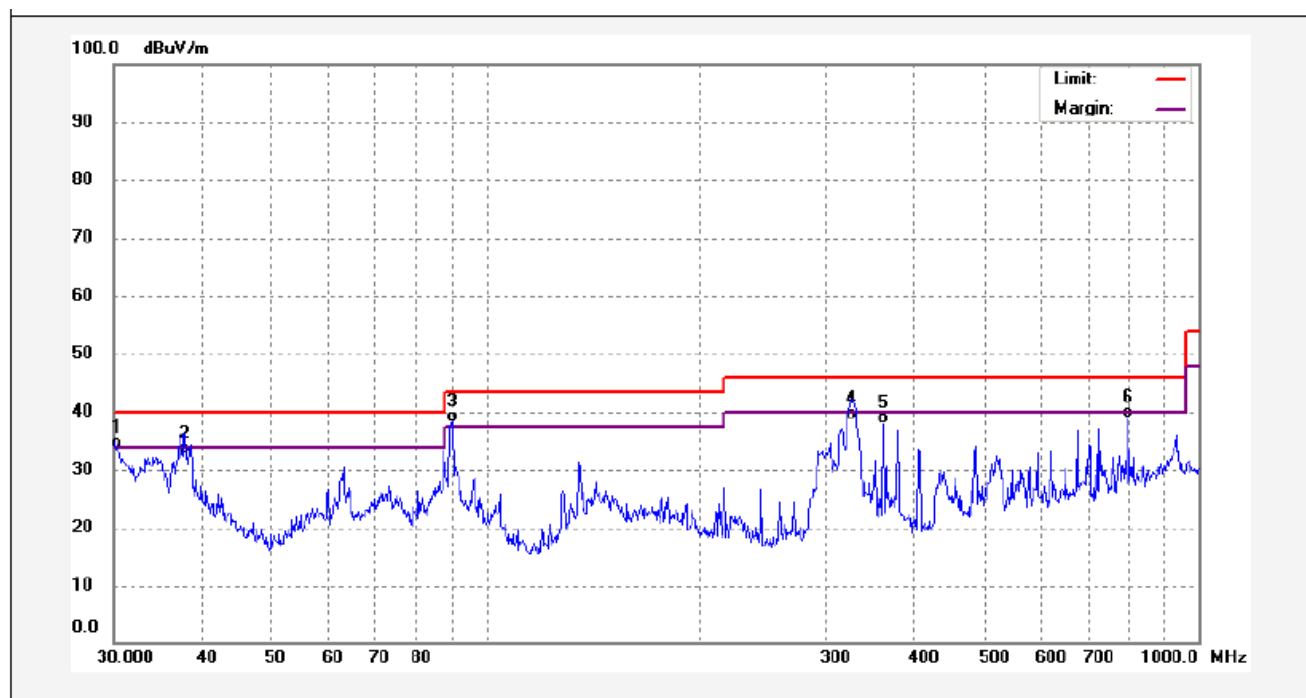
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : VGA
 Test specification : Horizontal, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1170.000	60.15	-17.90	42.25	74.00	-31.75	peak	
2	1170.000	54.12	-17.90	36.22	54.00	-17.78	AVG	
3	1350.000	63.40	-17.03	46.37	74.00	-27.63	peak	
4	1350.000	57.46	-17.03	40.43	54.00	-13.57	AVG	
5	1595.000	63.77	-17.85	45.92	74.00	-28.08	peak	
6	1595.000	58.47	-17.85	40.62	54.00	-13.38	AVG	
7	1930.000	56.33	-17.11	39.22	74.00	-34.78	peak	
8	1930.000	50.74	-17.11	33.63	54.00	-20.37	AVG	
9	3000.000	55.37	-14.73	40.64	74.00	-33.36	peak	
10	3000.000	50.60	-14.73	35.87	54.00	-18.13	AVG	
11	4605.000	49.75	-12.45	37.30	74.00	-36.70	peak	
12	4605.000	43.26	-12.45	30.81	54.00	-23.19	AVG	

Radiated Emission

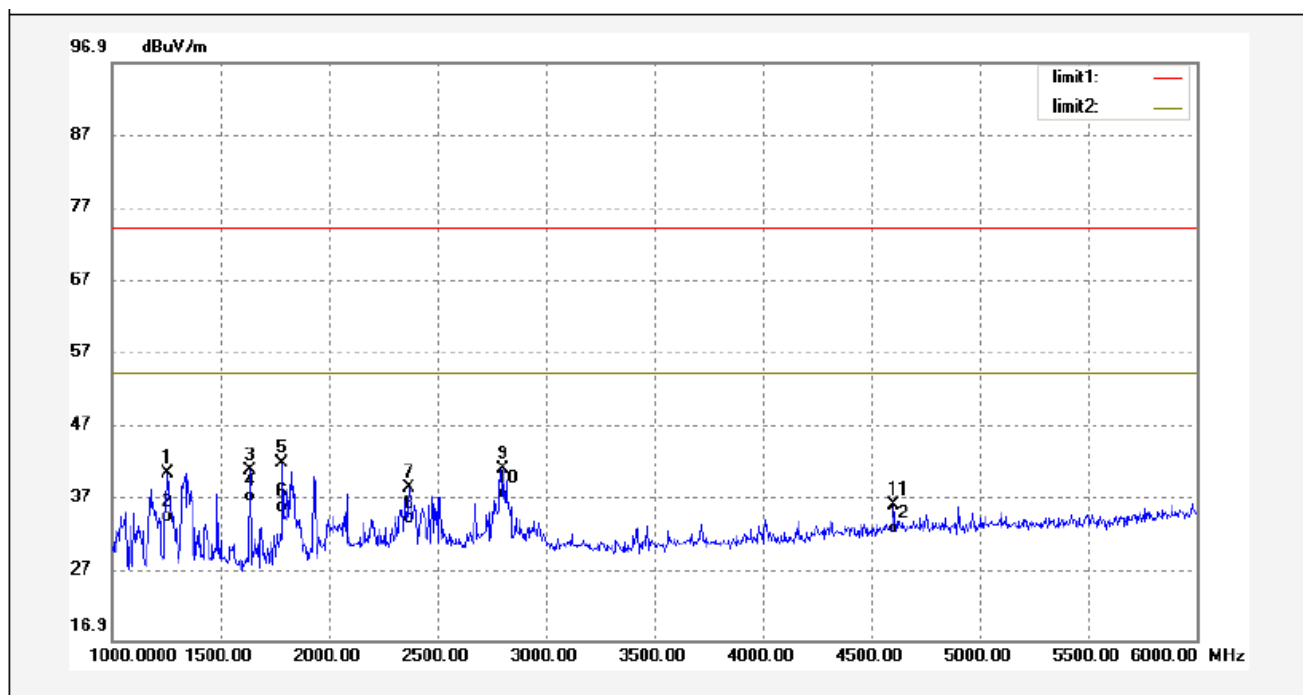
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : USB
Test specification : Vertical, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.0000	51.92	-18.29	33.63	40.00	-6.37	QP	
2	37.8121	53.05	-20.53	32.52	40.00	-7.48	QP	
3	89.5899	62.42	-24.17	38.25	43.50	-5.25	QP	
4	326.7395	57.57	-18.88	38.69	46.00	-7.31	QP	
5	361.7138	55.70	-17.85	37.85	46.00	-8.15	QP	
6	796.1829	46.23	-7.40	38.83	46.00	-7.17	QP	

Radiated Emission

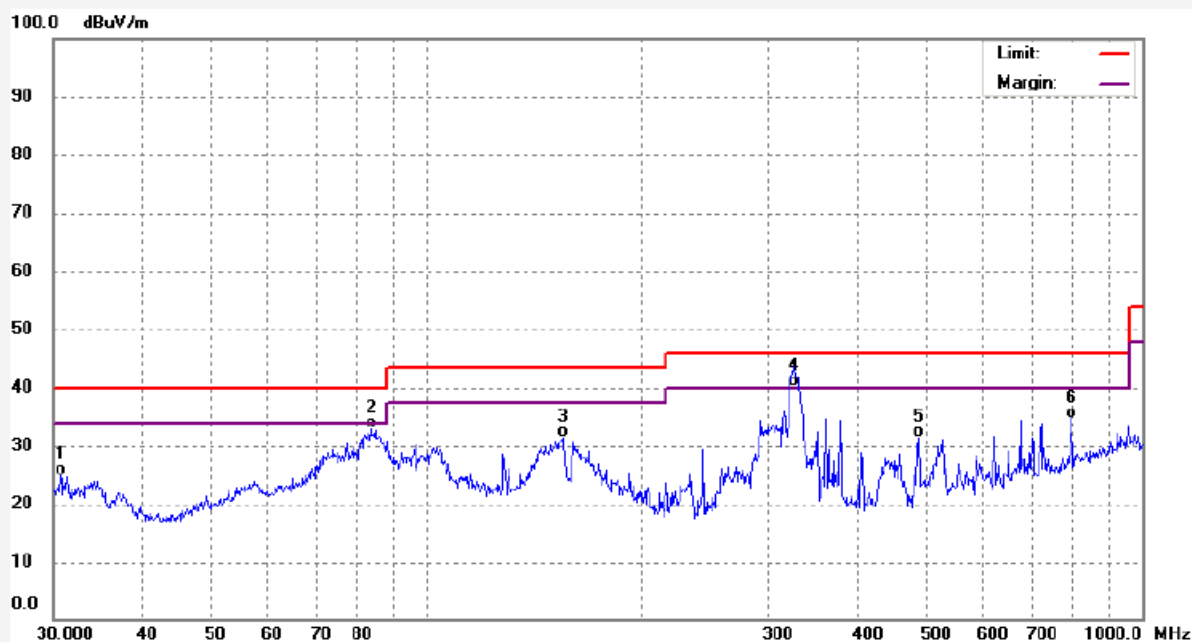
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : USB
Test specification : vertical, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1255.000	57.45	-17.21	40.24	74.00	-33.76	peak	
2	1255.000	50.69	-17.21	33.48	54.00	-20.52	AVG	
3	1635.000	58.52	-17.95	40.57	74.00	-33.43	peak	
4	1635.000	54.19	-17.95	36.24	54.00	-17.76	AVG	
5	1785.000	59.22	-17.70	41.52	74.00	-32.48	peak	
6	1785.000	52.42	-17.70	34.72	54.00	-19.28	AVG	
7	2370.000	53.74	-15.49	38.25	74.00	-35.75	peak	
8	2370.000	48.75	-15.49	33.26	54.00	-20.74	AVG	
9	2805.000	55.53	-14.78	40.75	74.00	-33.25	peak	
10	2805.000	51.47	-14.78	36.69	54.00	-17.31	AVG	
11	4605.000	48.21	-12.45	35.76	74.00	-38.24	peak	
12	4605.000	44.26	-12.45	31.81	54.00	-22.19	AVG	

Radiated Emission

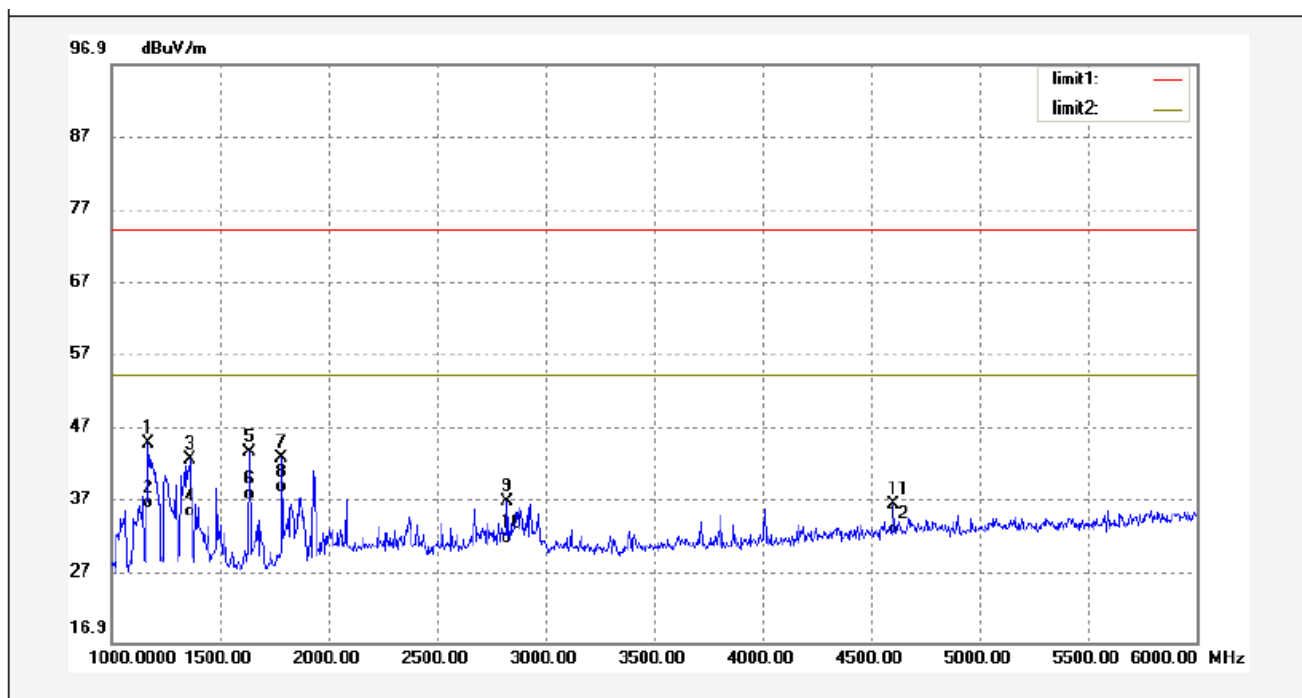
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : USB
Test specification : Horizontal, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.7454	43.16	-18.30	24.86	40.00	-15.14	QP	
2	83.5221	58.77	-25.82	32.95	40.00	-7.05	QP	
3	154.8204	52.06	-20.72	31.34	43.50	-12.16	QP	
4	325.5958	58.91	-18.86	40.05	46.00	-5.95	QP	
5	487.3150	45.79	-14.53	31.26	46.00	-14.74	QP	
6	796.1829	42.14	-7.39	34.75	46.00	-11.25	QP	

Radiated Emission

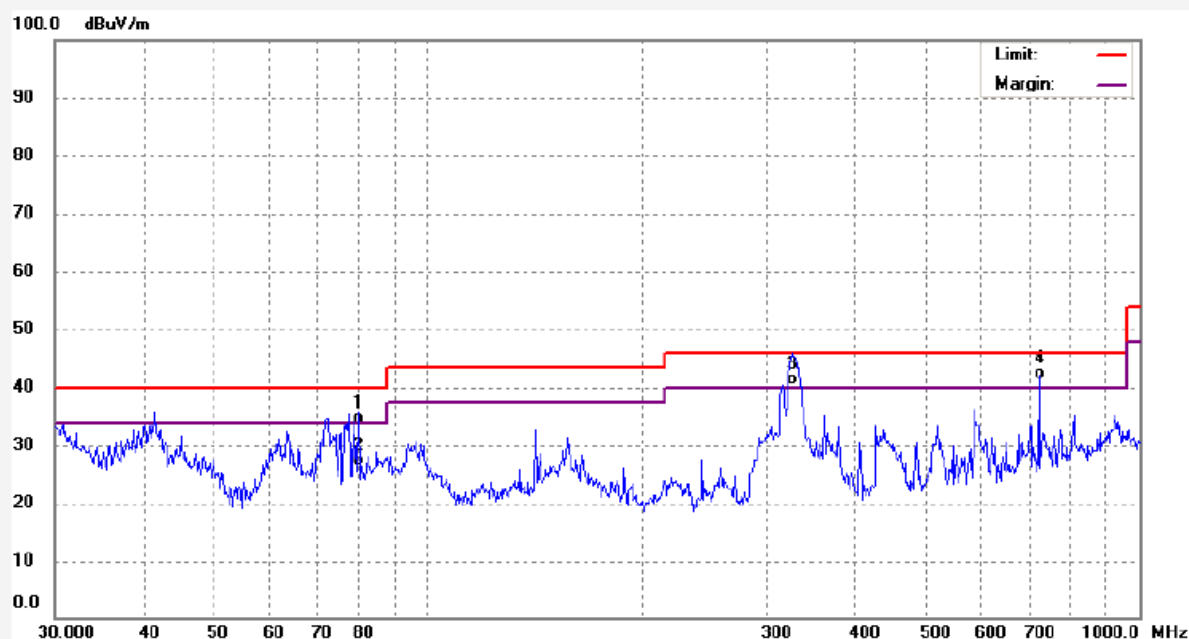
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : USB
 Test specification : Horizontal, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1170.000	62.55	-17.90	44.65	74.00	-29.35	peak	
2	1170.000	53.56	-17.90	35.66	54.00	-18.34	AVG	
3	1360.000	59.53	-17.09	42.44	74.00	-31.56	peak	
4	1360.000	51.41	-17.09	34.32	54.00	-19.68	AVG	
5	1635.000	61.29	-17.95	43.34	74.00	-30.66	peak	
6	1635.000	54.85	-17.95	36.90	54.00	-17.10	AVG	
7	1785.000	60.21	-17.70	42.51	74.00	-31.49	peak	
8	1785.000	55.52	-17.70	37.82	54.00	-16.18	AVG	
9	2825.000	51.40	-14.80	36.60	74.00	-37.40	peak	
10	2825.000	45.67	-14.80	30.87	54.00	-23.13	AVG	
11	4605.000	48.70	-12.45	36.25	74.00	-37.75	peak	
12	4605.000	44.52	-12.45	32.07	54.00	-21.93	AVG	

Radiated Emission

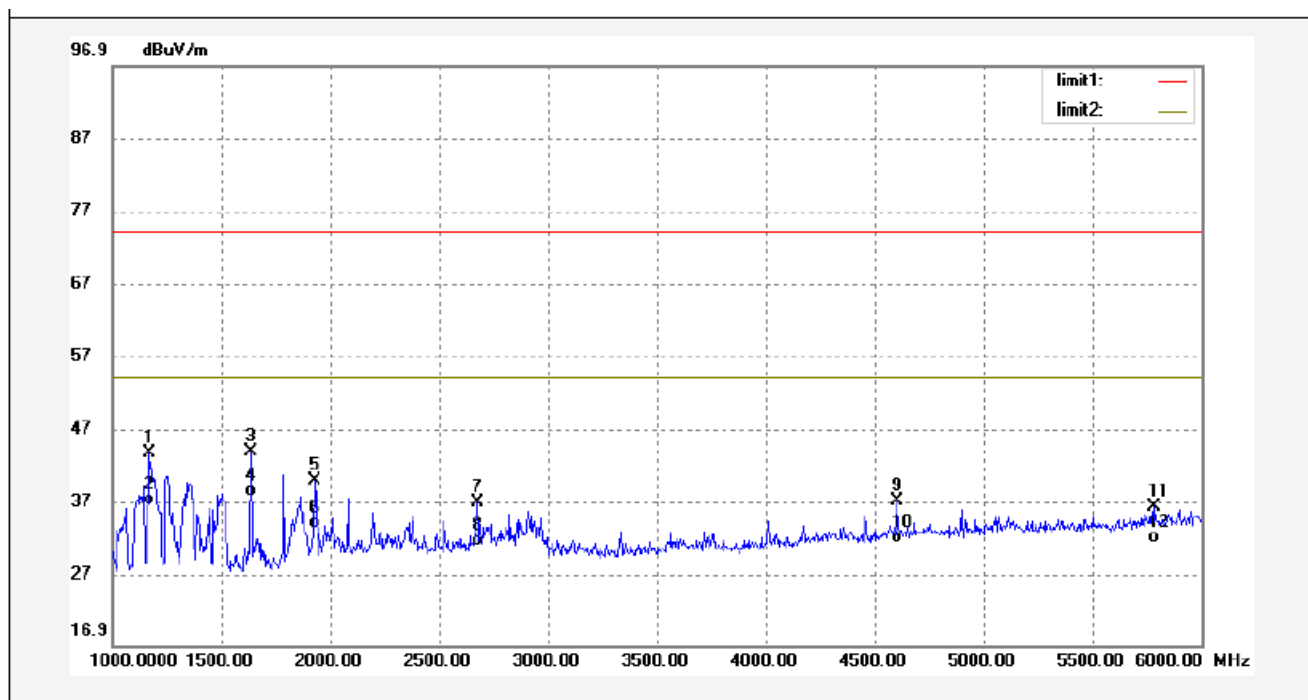
Product Type : 39" LED TV
M/N : LE3933
Operating Condition : AV
Test specification : Vertical, 30MHz-1000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	80.3617	57.32	-23.72	33.60	40.00	-6.40	QP	
2	80.3619	50.22	-23.72	26.50	40.00	-13.50	QP	
3	325.5958	59.41	-18.91	40.50	46.00	-5.50	QP	
4	724.2611	50.61	-9.11	41.50	46.00	-4.50	QP	

Radiated Emission

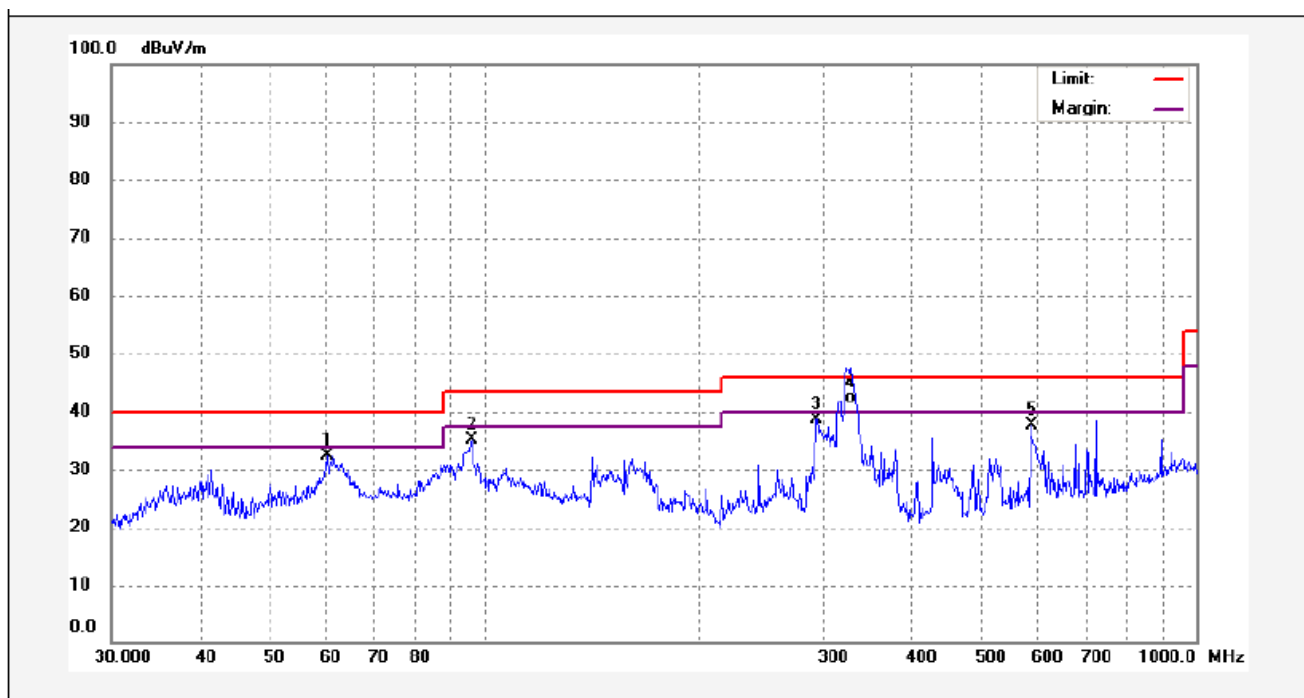
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : AV
 Test specification : Vertical, 1000MHz-6000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1170.000	61.43	-17.90	43.53	74.00	-30.47	peak	
2	1170.000	54.26	-17.90	36.36	54.00	-17.64	AVG	
3	1635.000	61.74	-17.95	43.79	74.00	-30.21	peak	
4	1635.000	55.62	-17.95	37.67	54.00	-16.33	AVG	
5	1930.000	56.96	-17.11	39.85	74.00	-34.15	peak	
6	1930.000	50.26	-17.11	33.15	54.00	-20.85	AVG	
7	2675.000	51.97	-15.16	36.81	74.00	-37.19	peak	
8	2675.000	45.87	-15.16	30.71	54.00	-23.29	AVG	
9	4605.000	49.37	-12.45	36.92	74.00	-37.08	peak	
10	4605.000	43.69	-12.45	31.24	54.00	-22.76	AVG	
11	5785.000	47.32	-11.09	36.23	74.00	-37.77	peak	
12	5785.000	42.25	-11.09	31.16	54.00	-22.84	AVG	

Radiated Emission

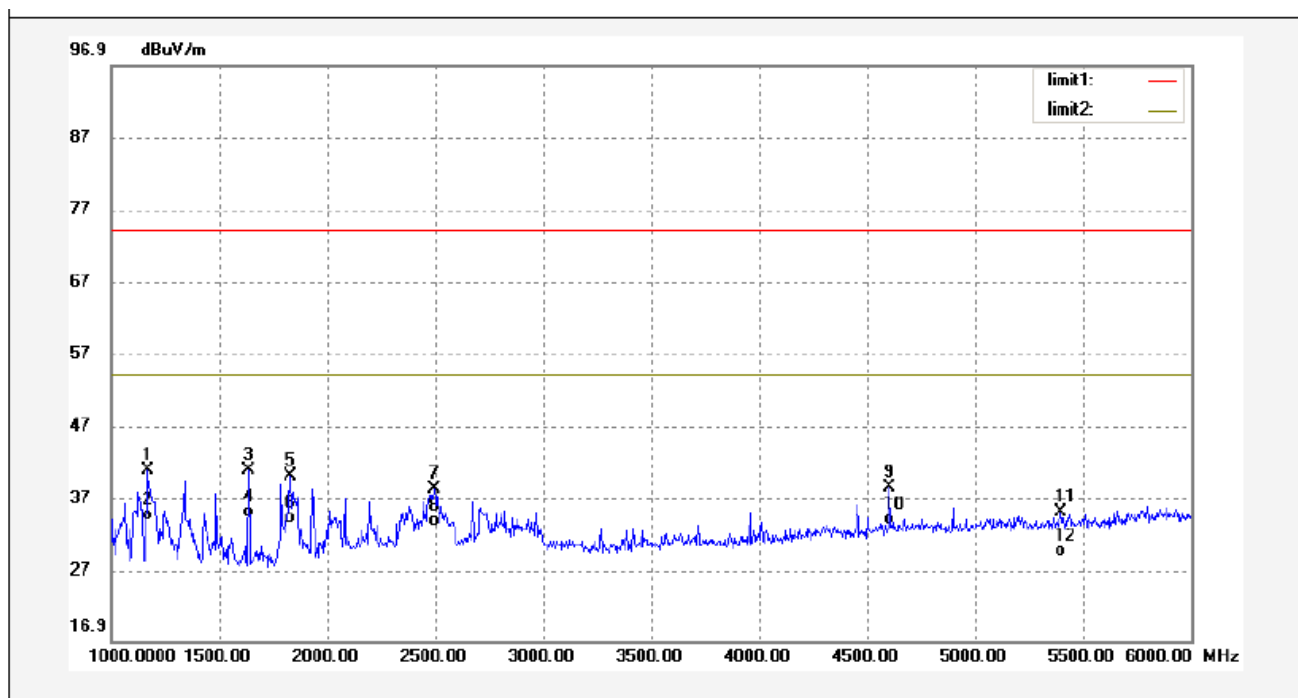
Product Type : 39" LED TV
 M/N : LE3933
 Operating Condition : AV
 Test specification : Horizontal, 30MHz-1000MHz
 Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	60.2801	53.67	-21.31	32.36	40.00	-7.64	peak	
2	96.0986	60.12	-24.98	35.14	43.50	-8.36	peak	
3	293.0842	58.61	-19.87	38.74	46.00	-7.26	peak	
4	327.8873	60.29	-18.79	41.50	46.00	-4.50	QP	
5	586.8437	49.51	-11.90	37.61	46.00	-8.39	peak	

Radiated Emission

Product Type : 39" LED TV
M/N : LE3933
Operating Condition : AV
Test specification : Horizontal, 1000MHz-6000MHz
Comment : AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1170.000	58.68	-17.90	40.78	74.00	-33.22	peak	
2	1170.000	51.67	-17.90	33.77	54.00	-20.23	AVG	
3	1635.000	58.79	-17.95	40.84	74.00	-33.16	peak	
4	1635.000	52.12	-17.95	34.17	54.00	-19.83	AVG	
5	1830.000	57.52	-17.51	40.01	74.00	-33.99	peak	
6	1830.000	50.99	-17.51	33.48	54.00	-20.52	AVG	
7	2495.000	53.91	-15.66	38.25	74.00	-35.75	peak	
8	2495.000	48.75	-15.66	33.09	54.00	-20.91	AVG	
9	4605.000	50.92	-12.45	38.47	74.00	-35.53	peak	
10	4605.000	45.74	-12.45	33.29	54.00	-20.71	AVG	
11	5395.000	46.87	-11.80	35.07	74.00	-38.93	peak	
12	5395.000	40.66	-11.80	28.86	54.00	-25.14	AVG	



Product Service

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
EMC Analyzer	Agilent	E7405A	MY45114943	August 8,2013
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	August 8,2013
Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	August 8,2013
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-148	August 8,2013
Coaxial Cable (above 1GHz)	SCHWARZBECK	AK 9515 H	EW02014-1	August 8,2013
Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	EW02014-4	August 8,2013
Positioning Controller	C&C LAB	CC-C-IF	--	--
Color Monitor	SUNSP0	SP-14C	--	--

7.3 Antenna conducted power

Test Method

- 1 The EUT was placed on a table, which is 0.8m above ground plane
- 2 Maximum procedures was performed to ensure EUT compliance
- 3 A impedance matching pad(75ohm/50ohm) is used for the test from the tuner to the receiver input port.
- 4 A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions from the antenna port through the impedance matching pad.

Limit

Frequency MHz	Power nW	Voltage dB μ V	Detector
30-5000	2	51.8	PK

Remark: During the Antenna conducted power test, all the channels in ATV mode, DTV mode are applied, and the results are met the limit of requirement, the test data which listed in the report are the typical channels of Low Middle and High.

Antenna conducted power

Test Mode	DTV Low channel		Frequency range	30M-1000MHz	
Frequency (MHz)	Emission level (dBμv)	Reading level (dBμv)	Connection factor(dB)	Limit (dBμv)	Margin (dB)
39.72	38.77	25.07	13.7	51.8	13.03
88.03	37.49	23.69	13.8	51.8	14.31

Test Mode	DTV Middle channel		Frequency range	30M-2000MHz	
Frequency (MHz)	Emission level (dBμv)	Reading level (dBμv)	Connection factor(dB)	Limit (dBμv)	Margin (dB)
87.48	38.21	24.41	13.8	51.8	13.59
125.94	37.68	23.88	13.8	51.8	14.12

Test Mode	DTV High channel		Frequency range	30M-5000MHz	
Frequency (MHz)	Emission level (dBμv)	Reading level (dBμv)	Connection factor(dB)	Limit (dBμv)	Margin (dB)
796.98	47.52	33.22	14.3	51.8	4.28
939.12	48.32	33.82	14.5	51.8	3.48

Antenna conducted power

Test Mode	ATV Low channel		Frequency range	30M-1000MHz	
Frequency (MHz)	Emission level (dBμv)	Reading level (dBμv)	Connection factor(dB)	Limit (dBμv)	Margin (dB)
177.12	38.07	24.27	13.8	51.8	13.73
947.94	41.35	26.85	14.5	51.8	10.45

Test Mode	ATV Middle channel		Frequency range	30M-5000MHz	
Frequency (MHz)	Emission level (dBμv)	Reading level (dBμv)	Connection factor(dB)	Limit (dBμv)	Margin (dB)
196.98	40.14	26.34	13.8	51.8	11.66
944.34	42.88	28.38	14.5	51.8	8.92

Test Mode	ATV High channel		Frequency range	30M-5000MHz	
Frequency (MHz)	Emission level (dBμv)	Reading level (dBμv)	Connection factor(dB)	Limit (dBμv)	Margin (dB)
327.98	37.33	23.33	14	51.8	14.47
537.6	38.2	24	14.2	51.8	13.6
944.46	45.72	31.22	14.5	51.8	6.08



Product Service

Test Equipment List

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL DUE DATE
EMI Test Receiver	R&S	ESCI	101178	August 8,2013
LISN	R&S	ENV216	101215	August 8,2013
Cable	Top	TYPE16(3.5M)	EW02014-5	August 8,2013